Sound Transit Art Program
East Link Extension, Overlake Village Station
Pedestrian Bridge Artwork Maintenance Information
March 9, 2021

This document describes the pedestrian bridge Artwork at the Overlake Village Station ("Artwork"), its author, its fabrication methods and its maintenance. The Artwork was commissioned by Sound Transit with additional funds contributed by the City of Redmond. The agreement with the artist, Leo Saul Berk ("Artist"), assumed the standard terms and conditions of a Sound Transit public art project, including issues of related to copyrights and the use of the Artwork.

Artist	Leo Saul Berk 3327 South Morgan Street Seattle WA 98118 (206) 234-4970 leoberk@comcast.net www.leosaulberk.com		
Artwork	Berk's Artwork is an environment of pixelated images of natural places from around the region, rendered in shades of the rich greens of early computer monitors.  Constructed from regularly-spaced, aluminum louvers, the Artwork will fully enclose both sides of the 500-foot long bridge. Looking straight down the length of the bridge from either end, the walls will appear solid; as one passes over the bridge, the images will seem to break apart as pedestrians or cyclists pass the gaps between the louvers.		
Completion	March 2021		
Structural Materials	Extruded 6005 T-6 Aluminum, painted and galvanized structural hardware as shown in the attached engineering and construction drawings.		
Finishes	Primer	PPG Amercoat 2 (product information and MSDS attached)	
	Topcoat	PPG PSX 800 (product information and MSDS attached)	
	Artwork	PPG PSX One (product information and MSDS attached). Specific color mixes are on file at PPG's Auburn architectural coatings store (https://www.ppgpaints.com/store-locator/us/washington/auburn-paint-stores/ppg-paints-22194) and are included along with the other related documents.	
Cleaning	All surfaces	The Artwork should be cleaned using the least aggressive processes required to remove dirt or graffiti. Start with clean water and a mild soap. If there is any graffiti, it should be removed with an appropriate solvent as identified in the product data sheet (PPG AMERCOAT 12 Cleaner or AMERCOAT 911 Thinner).	

Touch-up Painting	Damage to the Artwork layer	The Artwork was designed to be touched up using a paint brush. The surface should be thoroughly cleaned as noted above. Any touch-up painting should be performed per the manufacturer's product data sheet.	
	Damage to the Topcoat	The Topcoat was applied with by sprayer, so matching the surface finish will require careful application with a brush or low-nap roller. The surface should be thoroughly cleaned as noted above. Any touch-up painting should be performed per the manufacturer's product data sheet.	
Structural Damage	Because the Artwork's louvers were custom-extruded, the most expedient method for repairing a louver may be to fabricate sections from plate material.		
Attachments	01 E360 OVS Ped Bridge Artwork Presentation 2017-01-31.pdf 02 E360 OVS Ped Bridge Art Louver Properties OTAK 2017-10-11.pdf 03 E360 OVS Ped Bridge Art Louver Properties OTAK 2017-10-11.pdf 04 E360 OVS Ped Bridge Art Louver Deflection Evaluation OTAK 2017-09-11.pdf 05 OVS Pedestrian Bridge Substructure and Superstructure Drawings SPD450.pdf 06 OVS Pedestrian Bridge Substructure and Superstructure Drawings SPD451.pdf 07 OVS Pedestrian Bridge Substructure and Superstructure Drawings SPD452.pdf 08 E360 OVS Ped Bridge Artwork Cut List.pdf 09 E360 OVS Ped Bridge Artwork Extrusion List.xlsx 10 E360 OVS Ped Bridge Artwork Painting Images Composite Diagram.pdf 11 E360 OVS Ped Bridge Artwork Painting Images Composite Diagram.pdf 12 E360 OVS Ped Bridge Primer Amerlock 2 Product Data.pdf 13 E360 OVS Ped Bridge Primer Amerlock 2 Black Resin MSDS.pdf 14 E360 OVS Ped Bridge Topcoat PSX 800 Product Data.pdf 15 E360 OVS Ped Bridge Topcoat PSX 800 Resin MSDS.pdf 16 E360 OVS Ped Bridge Topcoat PSX 800 Resin MSDS.pdf 17 E360 OVS Ped Bridge Artwork Coat PSX One Product Data.pdf 18 E360 OVS Ped Bridge Artwork Coat PSX One Product Data.pdf 19 E360 OVS Ped Bridge Artwork Coat PSX One MSDS.pdf 19 E360 OVS Ped Bridge Custom Plate Washer.pdf 20 E360 OVS Ped Bridge Custom Plate Washer.pdf 21 E360-OVS-Berk-Paint-Formulas-01.pdf 22 E360-OVS-Berk-Paint-Formulas-02.pdf 23 E360-OVS-Berk-Paint-Formulas-02.pdf		
Copyright and Related Information from Sound Transit Contract with Artist	sole comi the <i>A</i> prop	d Transit shall own the original Artwork. Sound Transit shall have control over the siting, function, and display of the Artwork. Prior to mencing any substantial change to the siting, function, or display of Artwork, Sound Transit shall attempt to notify the Artist of the osed change and shall provide the Artist a reasonable opportunity to ult with Sound Transit, in accordance with terms and conditions as	

approved by Sound Transit, regarding the change. In the event that the Artist and Sound Transit do not agree, the Artist shall have the right to remove his/her name from the Artwork, and Sound Transit shall no longer use the Artist's name in association with that Artwork. The foregoing shall be the Artist's exclusive remedy regarding Sound Transit's siting, function, or display of the Artwork.

- 2. The Artist acknowledges and agrees that the Artwork [described in contract's Attachment 2] is intended to be incorporated in a public transit system and Sound Transit has sole authority over the present and future design and use of that transit system. The Artist further acknowledges and agrees that it is inherent in the nature of a public transit system that the Artwork may be subjected to destruction, distortion, mutilation, or other modification (collectively, "damage") due to repair, renovation or other alteration of the transit system. Prior to commencing any work that may subject the Artwork to damage, Sound Transit shall attempt to notify the Artist of the proposed work and shall provide the Artist a reasonable opportunity to consult with Sound Transit, in accordance with terms and conditions as approved by Sound Transit, regarding the avoidance or repair of potential damage to the Artwork. In the event that the Artist and Sound Transit do not agree, the Artist shall have the right to remove his/her name from the Artwork, and Sound Transit shall no longer use the Artist's name in association with that Artwork. The foregoing shall be the Artist's exclusive remedy regarding damage to the Artwork.
- 3. If Sound Transit proposes to do any work that will destroy the Artwork, Sound Transit shall attempt to notify the Artist prior to commencement of that work and the Artist shall have the right to remove the Artwork, at the Artist's sole expense and without unreasonably delaying or interfering with Sound Transit's work. Ownership of any Artwork removed by the Artist pursuant to this provision shall revert to the Artist.
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- 5. With regard to any notices required or permitted by this Section, Sound Transit shall be deemed to have made a diligent, good faith effort to notify the Artist if Sound Transit sends the notice by registered mail to the last address provided to Sound Transit by the Artist.

#### J. PROPRIETARY RIGHTS AND RIGHTS OF REPRODUCTION

 The Artwork is intended to be incorporated in a public transit system in the United States, and that the funding for the Artwork is intended to be provided from public sources in the United States. Therefore, the parties intend and agree that all rights in the Artwork shall be determined

- exclusively in accordance with this Agreement and the laws of the United States and the State of Washington.
- If any patentable or copyrightable material or article should result from the work described herein, all rights accruing from such material or article shall be the sole property of the Artist; except for ownership of the physical embodiment of the original Artwork, or as otherwise provided in this Agreement.
- 3. The Artist expressly reserves every right available to him/her to control the making and dissemination of copies or reproductions of the Artwork, except as those rights are limited by this Agreement. The Artist authorizes Sound Transit and its assigns to electronically scan, duplicate, or download images of the Artwork, and to make photographs, drawings, and other two-dimensional reproductions of the Artwork without consent of the Artist for any noncommercial use for the sole use and benefit of the public, including, but not limited to, education, public relations, advertising, brochures, and similar material. The Artist shall not make any exact duplications of the Artwork to full scale or in any manner that could cause confusion as to which is the original and which is the duplicate.
- 4. All reproductions by Sound Transit, including, without limitation, electronic or digital reproduction, shall contain a credit to the Artist and a copyright notice substantially in the following form: "Copyright, Artist's name, all rights reserved, date", and/or any other credit mutually agreed upon by the parties, in such a manner and location as shall comply with the U.S. Copyright Laws.



GA 0208-20 Overlake Village Station O&M Agreement

Exhibit B - OVS Ped Bridge Artwork Maintenance Information Attachments

## Pedestrian Bridge Artwork Maintenance Information Overview





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Copyright and Related Information from Sound Transit Contract with Artist	NOTE: Please refer to Exhibit C Overlake Pedestrian Bridge Artist Agreement Assignment for information on the transfer of these rights and responsibilities to the City of Redmond.  1. USE OF ARTWORK  1. Sound Transit shall own the original Artwork. Sound Transit shall have sole control over the siting, function, and display of the Artwork. Prior to commencing any substantial change to the siting, function, or display of the Artwork, Sound Transit shall attempt to notify the Artist of the proposed change and shall provide the Artist a reasonable opportunity to consult with Sound Transit, in accordance with terms and conditions as approved by Sound Transit, regarding the change. In the event that the Artist and Sound Transit do not agree, the Artist shall have the right to remove his/her name from the Artwork, and Sound Transit shall no longer use the Artist's name in association with that Artwork. The foregoing shall be the Artist's exclusive remedy regarding Sound Transit's siting, function, or display of the Artwork.  2. The Artist acknowledges and agrees that the Artwork [described in contract's Attachment 2] is intended to be incorporated in a public transit system and Sound Transit has sole authority over the present and future design and use of that transit system. The Artist further acknowledges and agrees that it is inherent in the nature of a public transit system that the Artwork may be subjected to destruction, distortion, mutilation, or other modification (collectively, "damage") due to repair, renovation or other alteration of the transit system. Prior to commencing any work that may subject the Artwork to		

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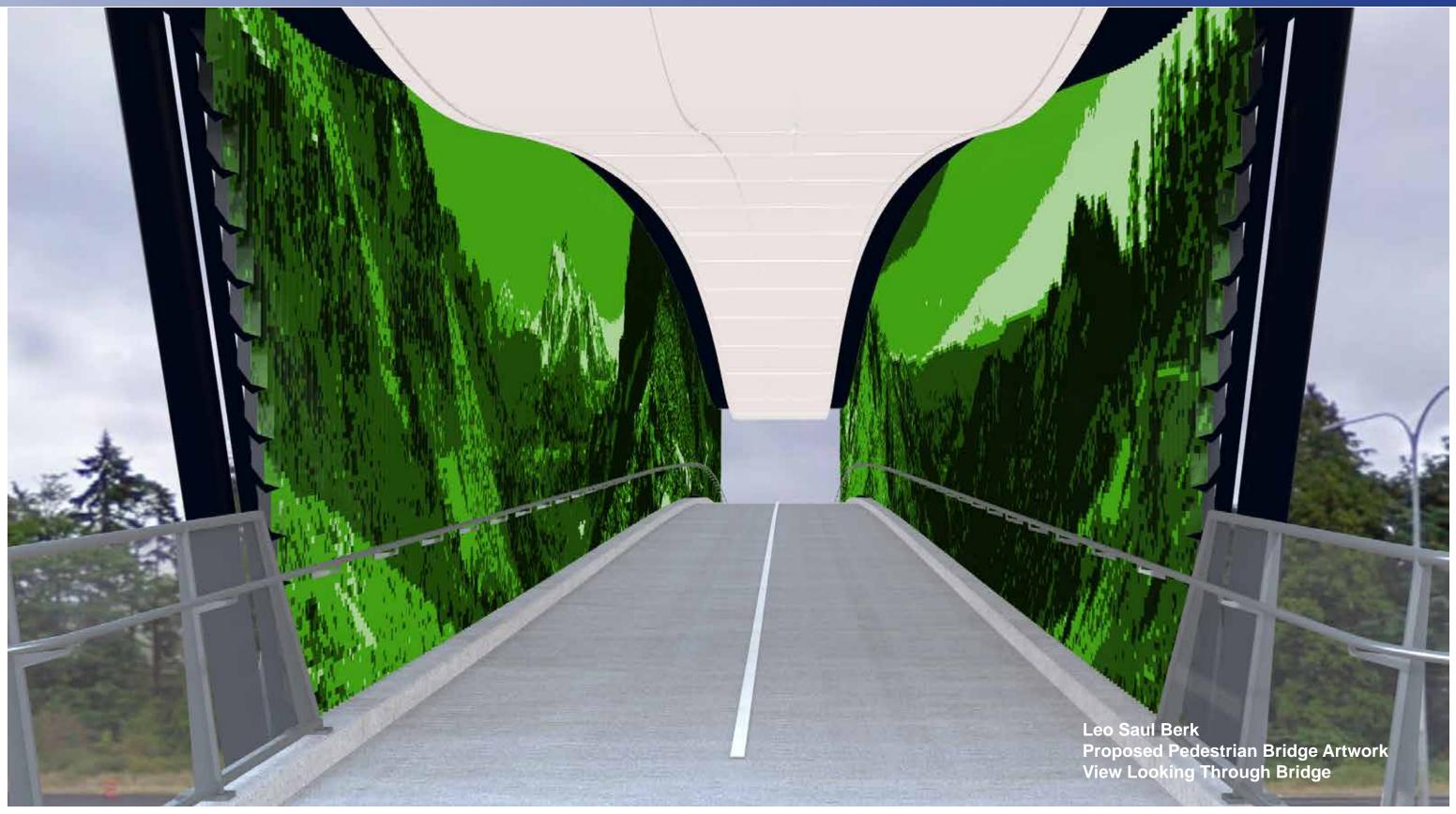
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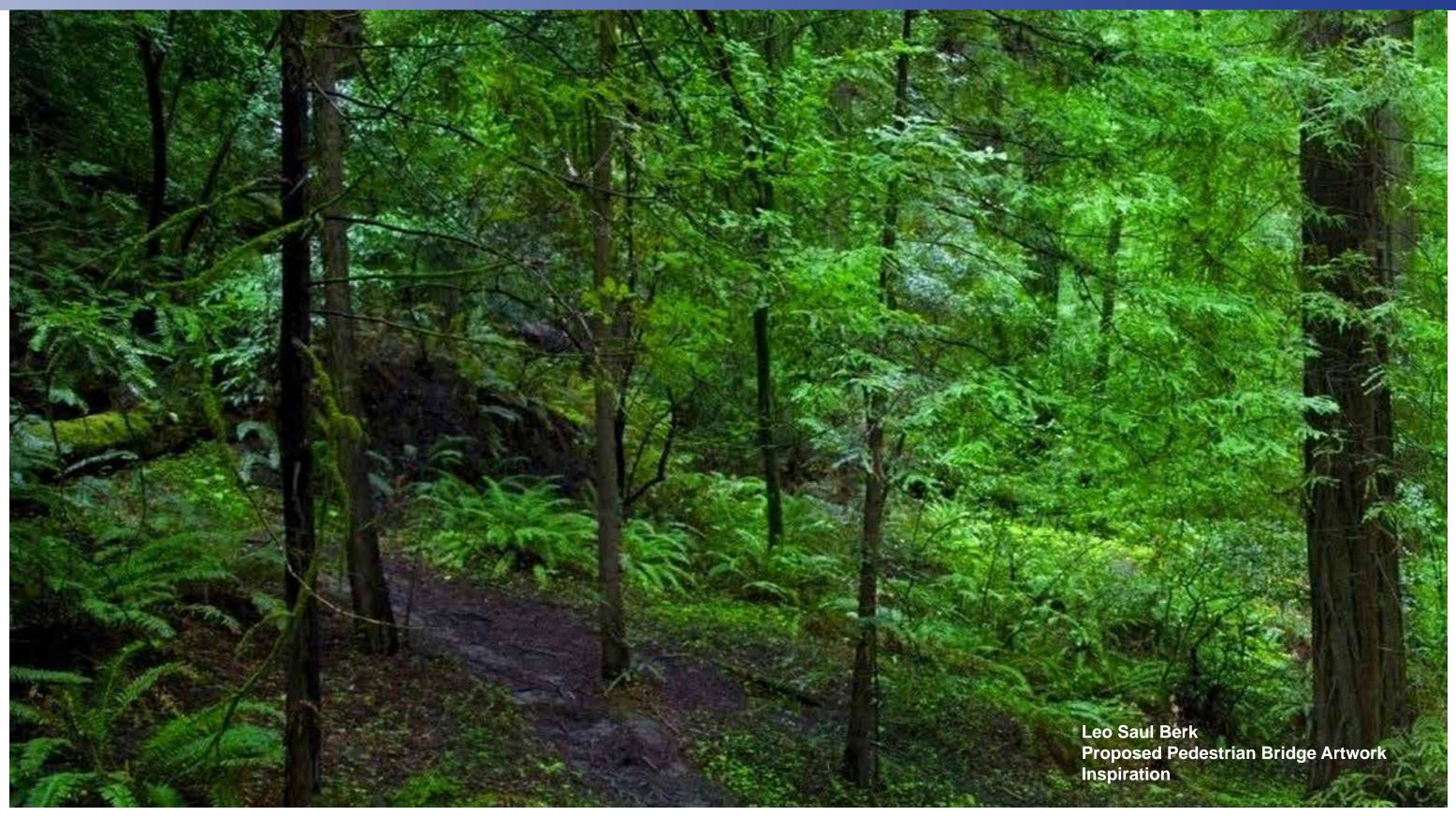
OVS Ped Bridge Artwork Presentation to CoR Design Review Board





City of Redmond PREP-Land Use Entitlement Design Review Board Meeting B (60%)





City of Redmond PREP-Land Use Entitlement Design Review Board Meeting B (60%)





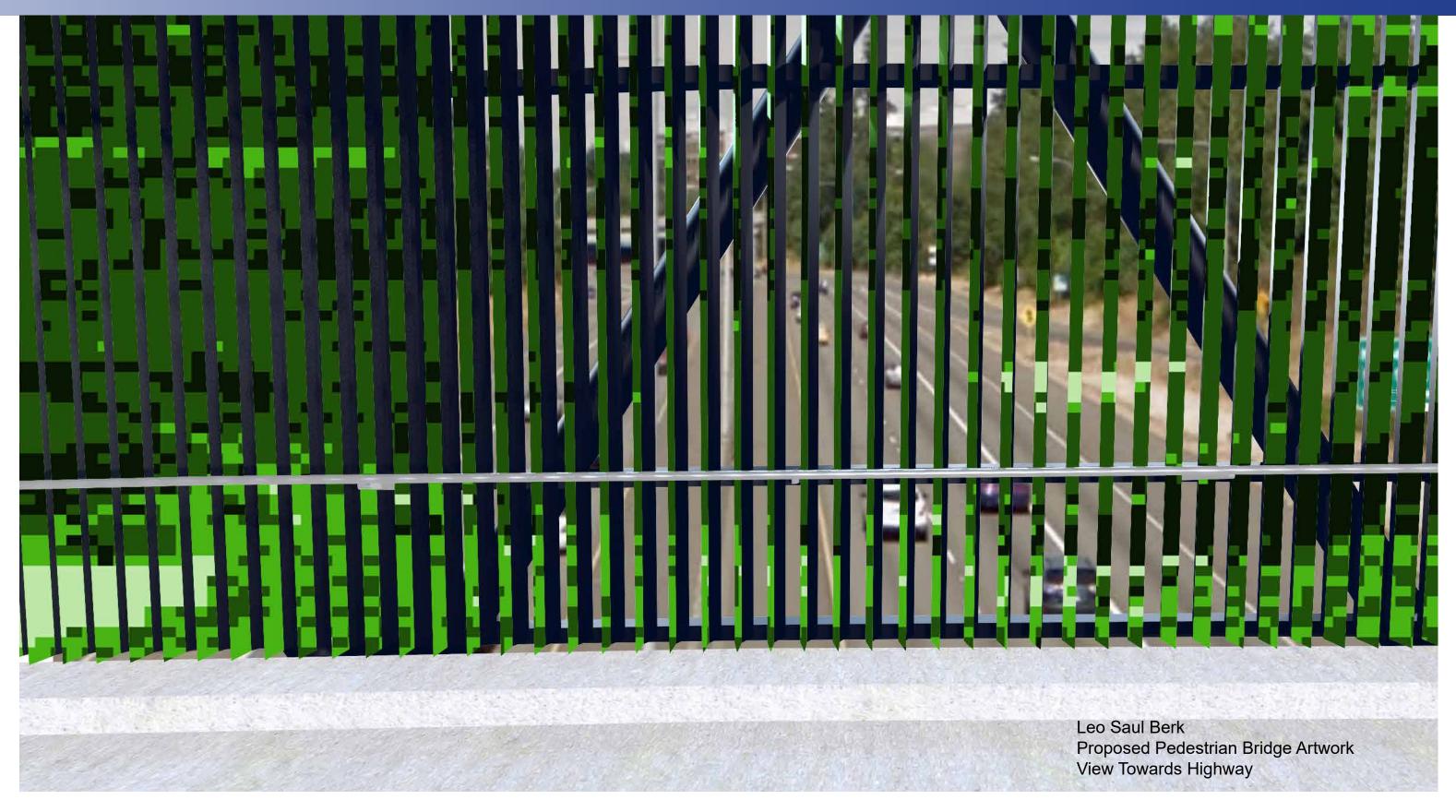
City of Redmond PREP-Land Use Entitlement Design Review Board Meeting B (60%)





City of Redmond PREP-Land Use Entitlement Design Review Board Meeting B (60%)





City of Redmond PREP-Land Use Entitlement Design Review Board Meeting B (60%)



OVS Ped Bridge Artwork Presentation to CoR Arts and Culture Commission

## **Overlake Village Station Pedestrian Bridge Artwork**

Design Directive: Create a project that contributes a sense of fun and play to OVS and

creates a positive experience of crossing the pedestrian bridge.

Design Limitation: WA DOT does not want the artwork to create a distraction for drivers

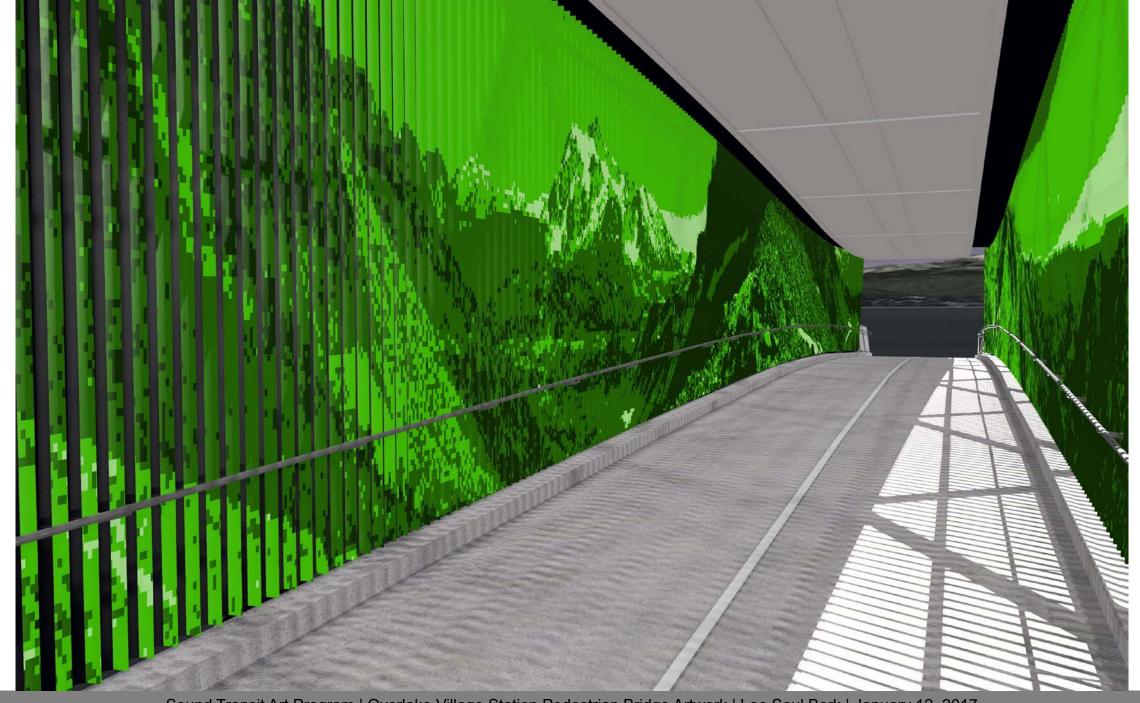
on Highway 520.

Artistic Intentions: Develop an immersive experience that competes with the noise of the

highway and matches the scale of the bridge.



Sound Transit Art Program | Overlake Village Station Pedestrian Bridge Artwork | Leo Saul Berk | January 12, 2017

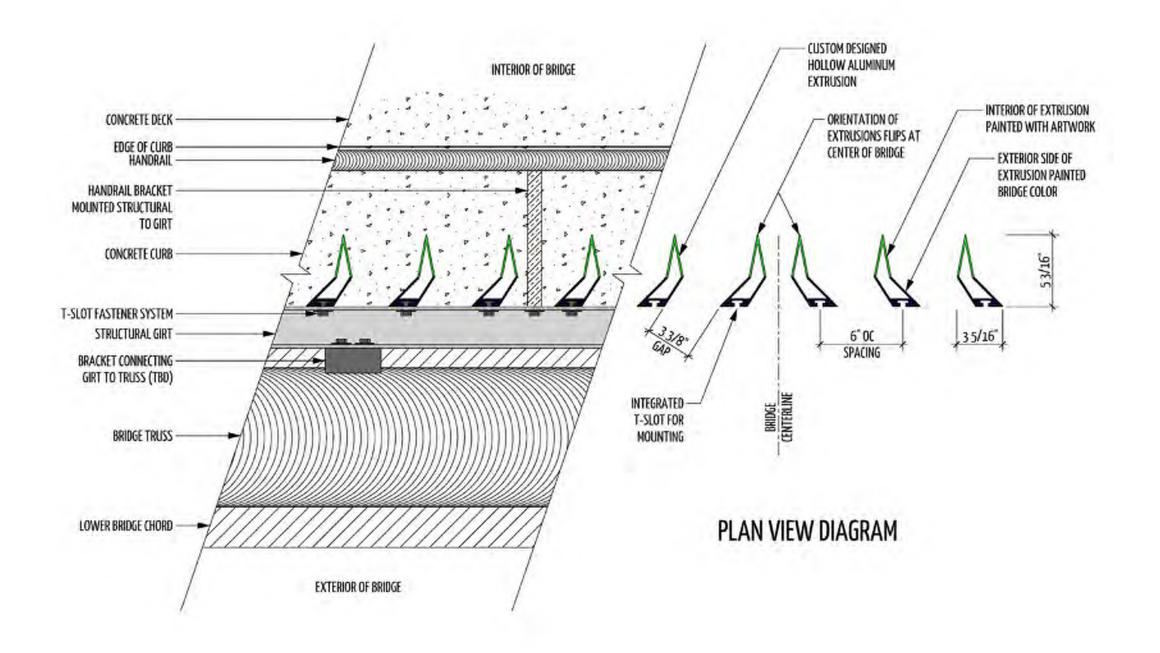


Sound Transit Art Program | Overlake Village Station Pedestrian Bridge Artwork | Leo Saul Berk | January 12, 2017





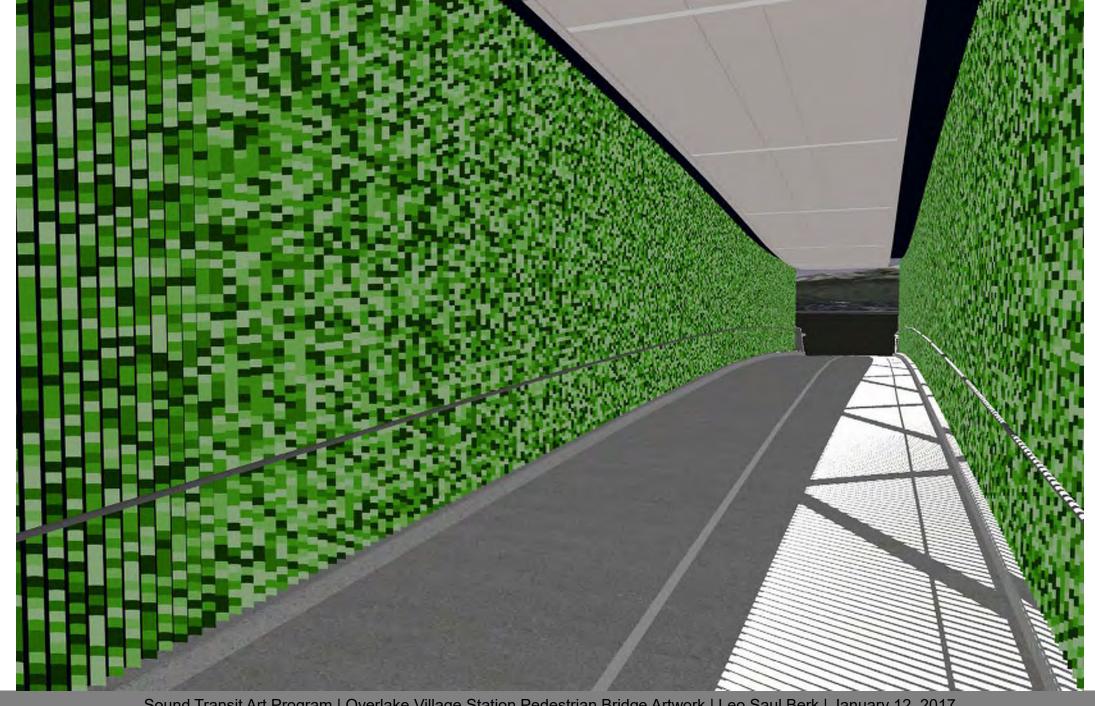
Sound Transit Art Program | Overlake Village Station Pedestrian Bridge Artwork | Leo Saul Berk | January 12, 2017





# **Designed for Ease of Maintenance**

- Durable, industrial Tnemec Fluoronar paint
- Hand brushed in regularly spaced stripes
- Limited palette of 5 colors



Sound Transit Art Program | Overlake Village Station Pedestrian Bridge Artwork | Leo Saul Berk | January 12, 2017

#### **PROCESS FOR CREATING BRIDGE ART IMAGERY**

STEP 1: SHOOT PANORAMIC PHOTOGRAPHS OF PACIFIC NORTHWEST NATURAL SCENES (THIS IMAGE IS A PLACE HOLDER)



STEP 2: TRANSFORM PHOTOGRAPH INTO FIVE COLOR, PIXELATED IMAGE



STEP 3: EACH COLUMN OF PIXELS IS THEN PAINTED ONTO ONE OF 1032 EXTRUSIONS ON EACH SIDE OF THE BRIDGE CREATING FOUR DIFFERENT IMAGES—AN IMAGE ON EITHER SIDE, BOTH COMING AND GOING.



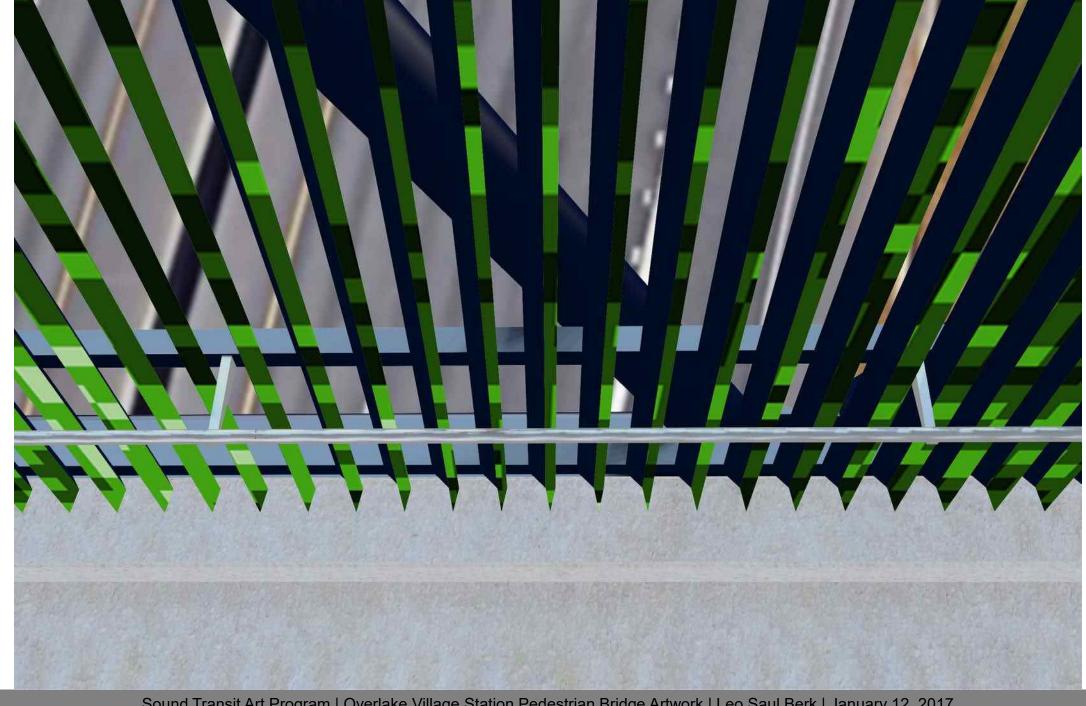
Sound Transit Art Program | Overlake Village Station Pedestrian Bridge Artwork | Leo Saul Berk | January 12, 2017



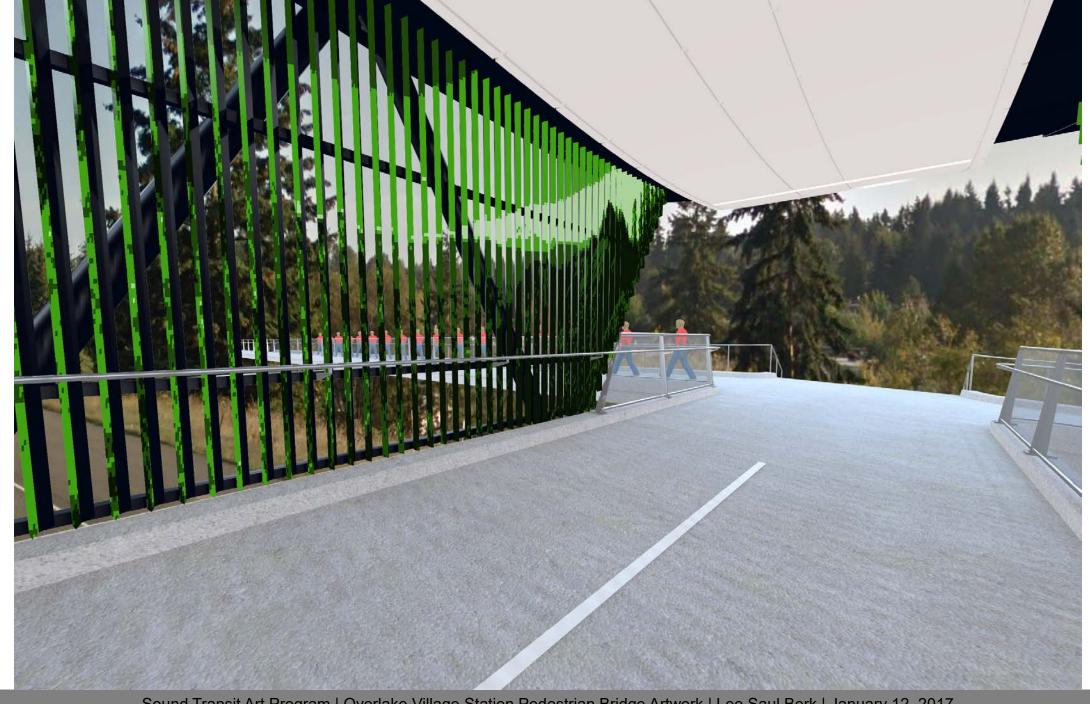
Sound Transit Art Program | Overlake Village Station Pedestrian Bridge Artwork | Leo Saul Berk | January 12, 2017



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OVS Ped Bridge Art Louver Properties - OTAK

## Technical Memorandum



700 Washington Street
Suite 300
Vancouver, WA 98660

Phone (360) 737-9613 Fax (360) 737-9651 To: Leo Berk

From: Scott Nettleton P.E.

**Prepared By:** Scott Nettleton and Elizabeth Sheehy

Date: October 11, 2017

Subject: Overlake Village Pedestrian Bridge Extrusions

Project No.: 18584

#### Summary:

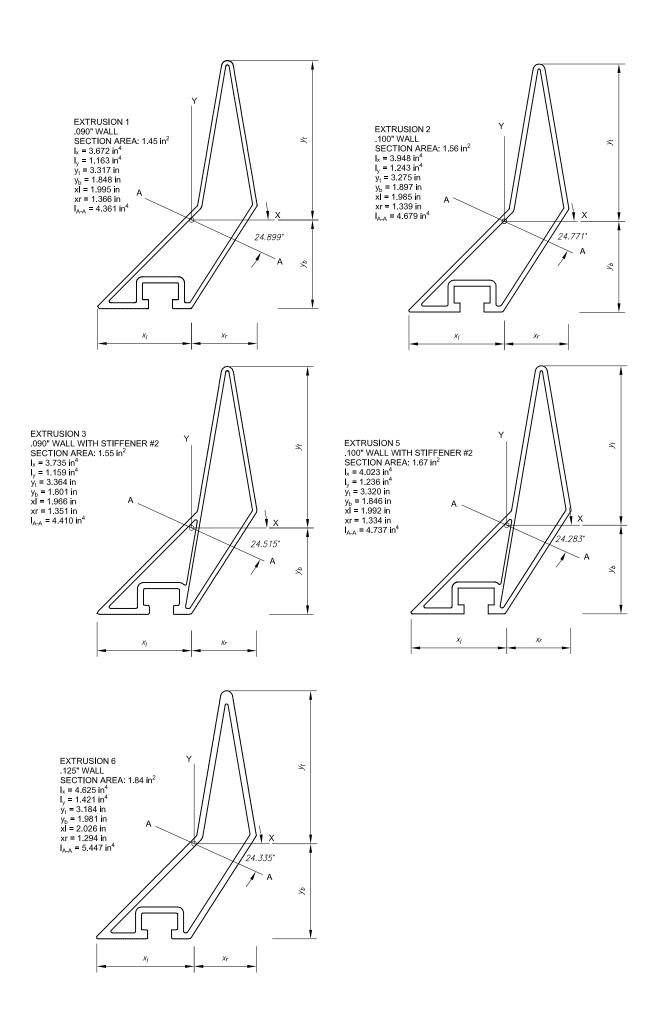
The Overlake Village Pedestrian Bridge has been selected by Sound Transit as a site for mounting of a public art installation to enhance user experience on the East Side Light Rail Extension. The bridge is sited to span SR520 within the City of Redmond connecting the Overlake Village Station to the 520 bike/pedestrian multi-use pathway at the top of the embankment parallel to the highway on the north side.

During the course of design development the installation has coalesced on a pixelated image to be applied to elements installed on either side of the structure interior. These elements are proposed to be manufactured of a custom extruded aluminum cross section that will be placed vertically outside of the hand railing. The position of these members will require them to provide the structural function of handrail balusters.

Otak has been requested by Leo Berk, the artist developing these sections for installation, to provide the engineering properties for proposed sections. The purpose of which to supply to the Bridge Engineer in responsible charge for evaluation against code applied loading and to finalize the supporting mechanism for attachment to the structure.

Five different sections, identified as 1, 2, 3, 5 and 6, each identical externally, have been evaluated. The multiple sections enable the evaluation to determine the most economical section that provides sufficient strength for the installation. The section properties are attached in Appendix A.

### **APPENDIX A**





OVS Ped Bridge Art Louver Deflection Evaluation - OTAK



OVERALL ARTWORK RENDERING LOOKING WEST

#### **SOUND TRANSIT ART PROGRAM**

E360 OVERLAKE VILLAGE STATION ARTWORK

REVISIONS



OBLIQUE VIEW RENDERING INSIDE BRIDGE

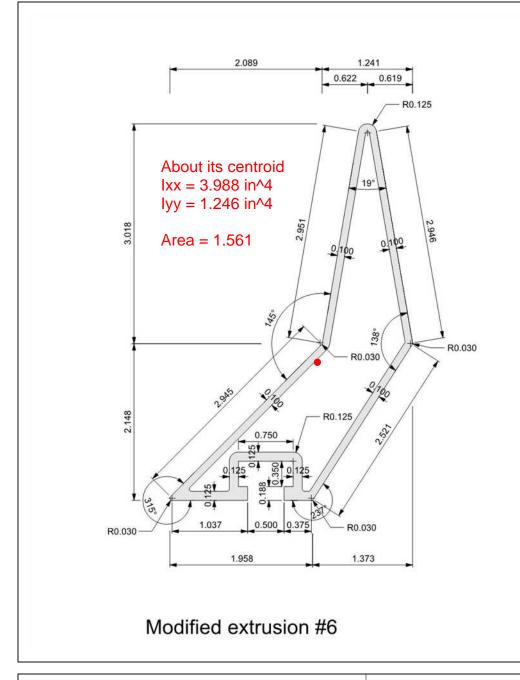
### **SOUND TRANSIT ART PROGRAM**

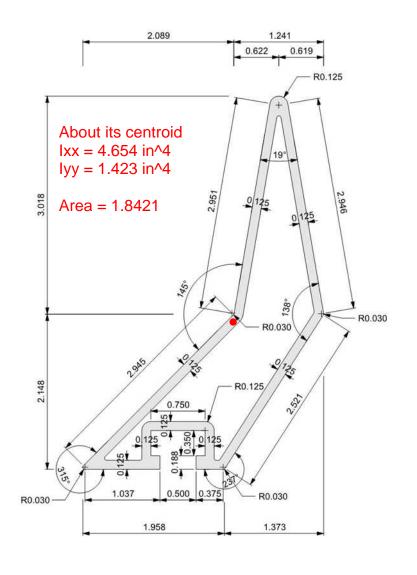
E360 OVERLAKE VILLAGE STATION ARTWORK

		REVISIONS
	MM/DD/YY	REMARKS
1	//	
2	//	
3	//	
4	//	
5	//	









Modified extrusion #7

PROFILES 6 AND 7

**SOUND TRANSIT ART PROGRAM** 

E360 OVERLAKE VILLAGE STATION ARTWORK

**REVISIONS** 

04

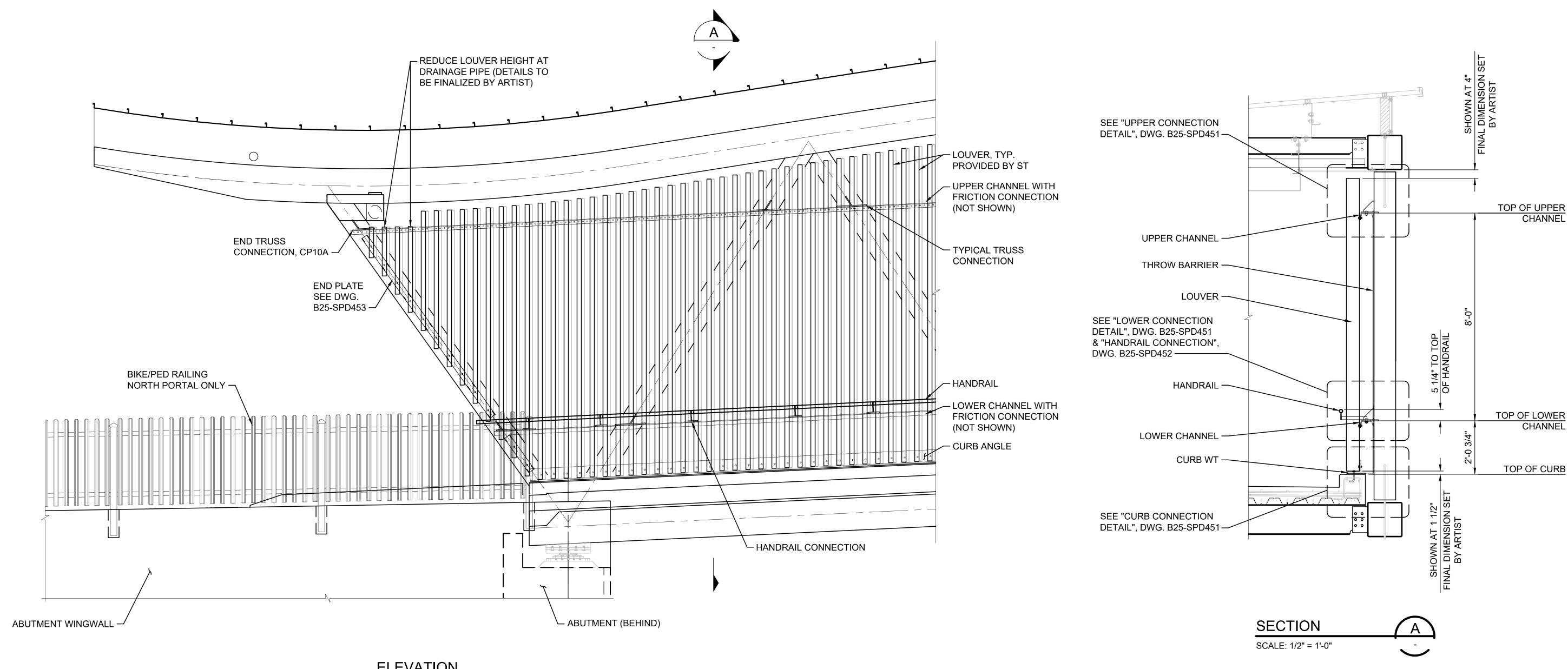


1 9/16" HANDRAIL-2, TYP - LOWER C4x5.4xLENGTH - CUT TO FIT TRUSS REQUIRED DIAGONAL AS REQUIRED - UPPER C4x5.4 WITH MESH HANDRAIL MOUNTING, 1/2" PLATE XREF LIST: 4'-0" MAX SPACING, LACING HOLES @ 2" CENTERS xE360-GB-TB22x34.dwg LOWER C4x5.4 Assume pinned connection xE360-GB-TB22x34\_TYLI LOGO.dwg xE360-B25-SPE001.dwg (constant along span) xE360-B25-SPD002.dwg xE360-B25-SPD003.dwg CP10A DETAIL SEE LOUVER CONNECTION xE360-B25-SPD015.dwg xE360-B25-SBE001.dwg ~ CP10 OR CP10A 325-SPD4 **DETAILS, THIS SHEET** xE360-B25-SBE011.dwg xE360-B25-SPX001.dwg UPPER C4x5.4 WITH MESH LACING HOLES @ 2" CENTERS RADIUS PLATE AS REQUIRED END CONNECTION END CONNECTION TO FIT TRUSS DIAGONAL PLATE, CP10A DETAIL -PLATE, CP10 DETAIL - CUT TO FIT TRUSS DIAGONAL AS REQUIRED 1/2" PLATE -Assume 200 lb concentrated load Assume pinned connection acting perpendicularly to louver (constant along span) GRD-3 PER STD E25-AED931\*\* — SEE HANDRAIL CONNECTION - 1/2" PLATE AND VANE CONNECTION DETAILS, THIS SHEET - LOWER C4x5.4 **CP11 DETAIL SECTION** CP10 DETAIL В - LOWER C4x5.4 SEE LOUVER CONNECTION SCALE: SEE GENERAL NOTE 1B AT HANDRAIL DETAILS, THIS SHEET MESH LACING BAR xFULL LENGTH TYP, WRAP WELD OVER **TOP OF PLATE** THROW BARRIER TAPERED END SUPPORT POST, SEE — CP10 OR CP10A DRAWING B25-SPD451 FOR DETAIL -3/4" BOLT, SNUG TIGHT, UPSET THREADS, TYP - DIAGONAL MEMBER LOUVER -**SECTION** PARTIAL ELEVATION LOOKING NORTH \_ 1/2" BOLT, SNUG TIGHT, UPPER C4x5.4 **UPSET THREADS** 3/4" HOLES ON SCALE: SEE GENERAL NOTE 1B WIND VANE DETAIL SCALE: SEE GENERAL NOTE 1B └─ 1/2" GALV. BOLT WITH EXTERIOR LEG ONLY HNDRL-2, 1 1/2" OD SST, NOTCH 5/16" WASHER PLATE TAPERED WASHER, SNUG FOR TIGHT FIT TO STEEL ROD — HANDRAIL MOUNTING, (HOT DIP GALV.) \_\_\_ 1/4" PLATE (SST) TO PREVENT ROTATION, TYP —— TIGHT, UPSET THREADS 1/4" 4'-0" MAX SPACING - LACING CABLE PER 3/8" TYP, WRAP MANUFACTURER Quick calculation (conservative by ignoring the 3rd support point), WELD OVER **SPECIFICATIONS** assume simple beam supports ← CP11 TOP OF PLATE THROW BARRIER - 3/4" BOLT, TYP Deflection at point of loading: - CP10 OR CP10A 3/4" BOLT, SNUG TIGHT, P\*a^2\*b^2/(3\*E\*Ixx\*L) DIAGONAL UPSET THREADS, TYP -**MEMBER** 200 lb x (24")^2 x (72")^2 / (3 x 10,000,000 psi x lxx x 96") LOUVER -- LOWER C4x5.4 for 0.1" thick louver,  $lxx = 3.988 in^4$ 3 3/4"x3/8" STEEL ROD – 5/16" WASHER PLATE LOWER C4x5.4 deflection = 0.052" (HOT DIP GALV.) THROW BARRIER for 0.125" thick louver, lxx = 4.654 in 4 - 1/2" GALV. BOLT WITH **ELEVATION** LOWER C4x5.4 ∠ THROW BARRIER deflection = 0.045" TAPERED WASHER, SNUG TIGHT, UPSET LOUVER -**SECTION THREADS** 3/4" BOLT IN 1/2" GALV. BOLT @ 6" CENTERS, 3/8" HOLE FOR SNUG TIGHT, UPSET THREADS 13/16" HOLE, TYP -VERTICAL ROD -- 5/16" PLATE 1/2" ANCHOR BOLT, 3'-0" MAX SPACING, TYP -2" SST TUBE, SIZE FOR \*\*NOTE: SNUG FIT INSIDE HNDRL-2 -OBTAIN WRITTEN SPECIAL NOTICE TO PROCEED PRIOR TO FABRICATION OR - 3"x5"x1/2"xCONTINUOUS CONSTRUCTION OF APPROACH GRD-3 GUARDRAIL. - 1/2" NOM GROUT BED, 1 1/2"x1'-2"x3/8" PLATE, SST 9/16"x3/4" SLOTTED HOLE SHIM UNDER ANGLE TO LEVEL AS REQUIRED 5/16" WASHER PLATE 4"x6"x3/8" PLATE, SST 3/8" **SECTION** HANDRAIL CONNECTION DETAILS LOUVER CONNECTION DETAILS SCALE: SEE GENERAL NOTE 1B SCALE: SEE GENERAL NOTE 1B DRAWING No.: DESIGNED BY: **EAST LINK EXTENSION** IN PROGRESS 5 B. BOCHSLER/S. NETTLETON AS NOTED PRELIMINARY B25-SPD450 KIEWIT-HOFFMAN **CONTRACT E360 TY-LIN**INTERNATIONAL DRAWN BY: FILENAME: **ENGINEERING** SR 520 TO OVERLAKE TRANSIT CENTER . KOONS E360-B25-SPD450 FACILITY ID: engineers | planners | scientists EAST LINK CONSTRUCTORS CONTRACT No.: CHECKED BY: B25 **SOUNDTRANSIT** NOT FOR OVERLAKE VILLAGE PEDESTRIAN BRIDGE SHEET No.: A. SELLADURAI RTA/CN 0122-13 CONSTRUCTION SCREEN DETAILS SUBMITTAL DATE: APPROVED BY: SUBMITTED BY: REVIEWED BY: SHEET 1 S. NETTLETON G. OWEN 06/16/2017 A. MENCKE 06/16/2017 06/16/2017 CHK APP REVISION



OVS Ped Bridge Substructure and Superstructure Drawings

XREF LIST: xE360-GB-TB22x34.dwg xE360-GB-TB22x34\_TYLI LOGO.dwg xE360-B25-AWE020 dwg xE360-B25-SPE001.dwg xE360-B25-AWX001.dwg xE360-B25-SPX001.dwg xE360-B25-SPE001.dwg xE360-B25-SBE011.dwg xE360-B25-ARX001.dwg xE360-B25-ARE001.dwg



**ELEVATION** 

SCALE: 1/2" = 1'-0

## NOTES:

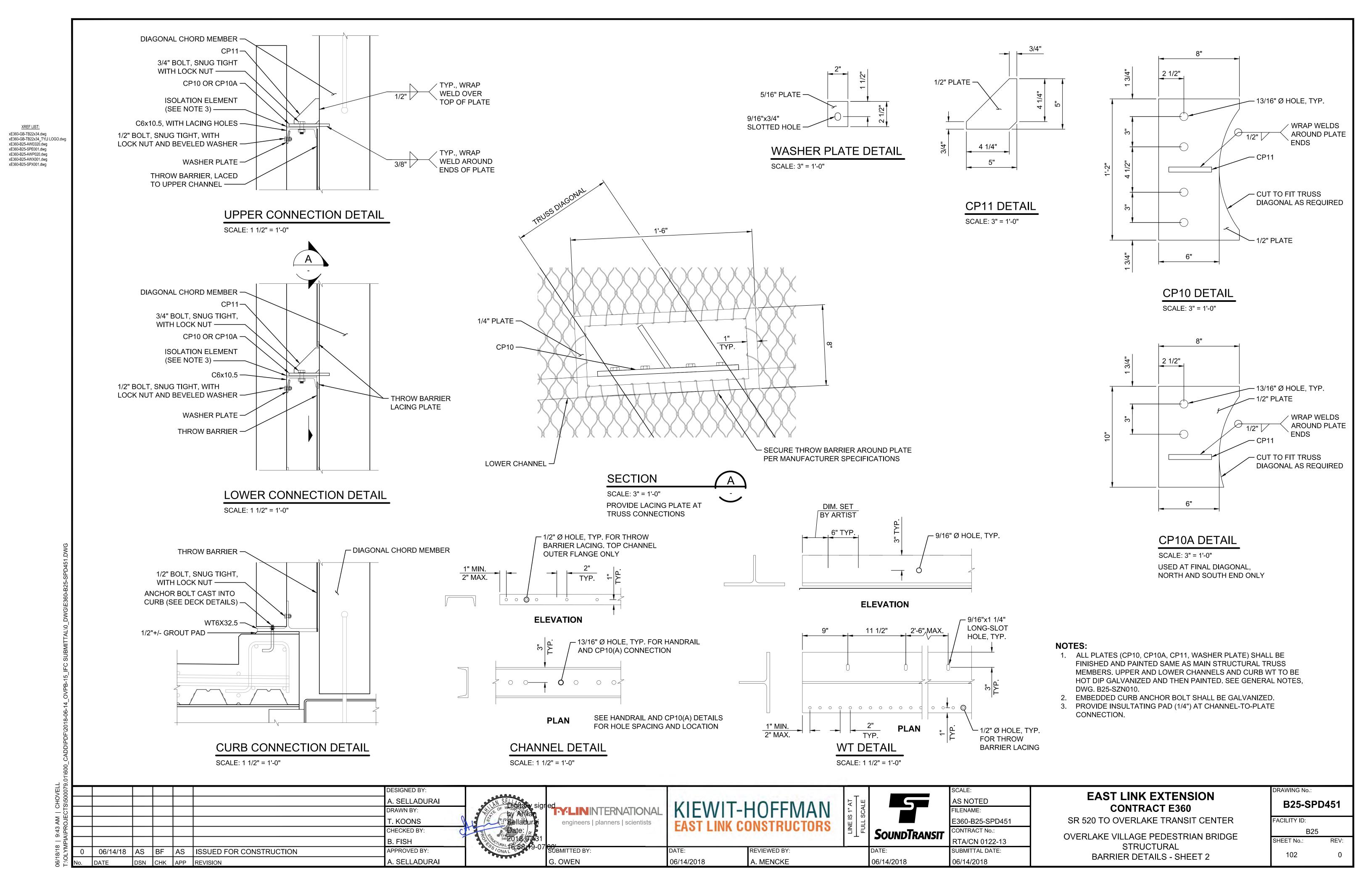
- 1. PROFILE OF UPPER AND LOWER CHANNELS FOLLOW PGL. SEE DWG. B25-SPP025.
- 2. LOUVERS ARE TO BE PROVIDED AND INSTALLED BY SOUND TRANSIT. 3. LOUVER CONNECTIONS DESIGNED BASED ON THE FOLLOWING LOUVER PROPERTIES:
  - ASTM B221 ALUMINUM, Ftu = 38 KSI, Fty = 35 KSI, Ftuw = 24 KSI
  - AREA =  $1.45 \, \text{IN}^2$ -  $Ix = 3.672 IN^4$

  - $Iy = 1.163 IN^4$ - yb = 1.848 IN
  - LOUVERS WITH ALTERNATE PROPERTIES SHALL BE APPROVED BY THE ENGINEER OF RECORD PRIOR TO FABRICATION.
- 4. SEE DP012, OVS STATION DRAWINGS FOR BARRIER CONNECTION AT SOUTH PORTAL.
- 5. FOR CONNECTION PLATE DETAILS, SEE DWG. B25-SPD451.

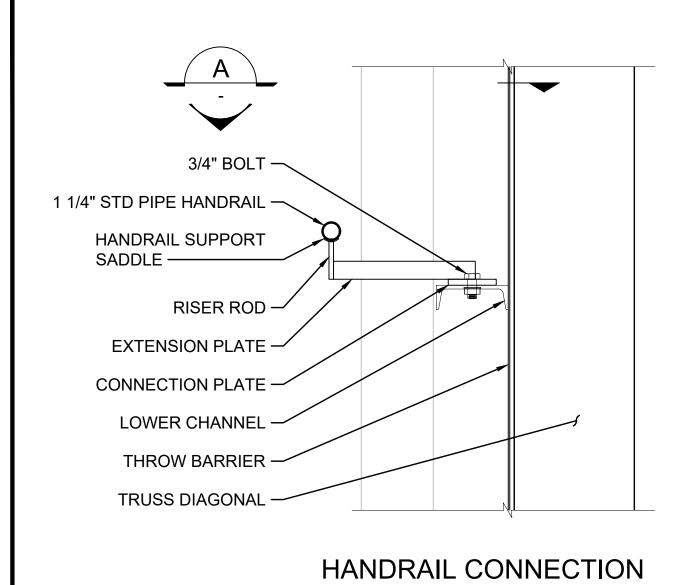
### **CONSTRUCTION SEQUENCING FOR BARRIERS:**

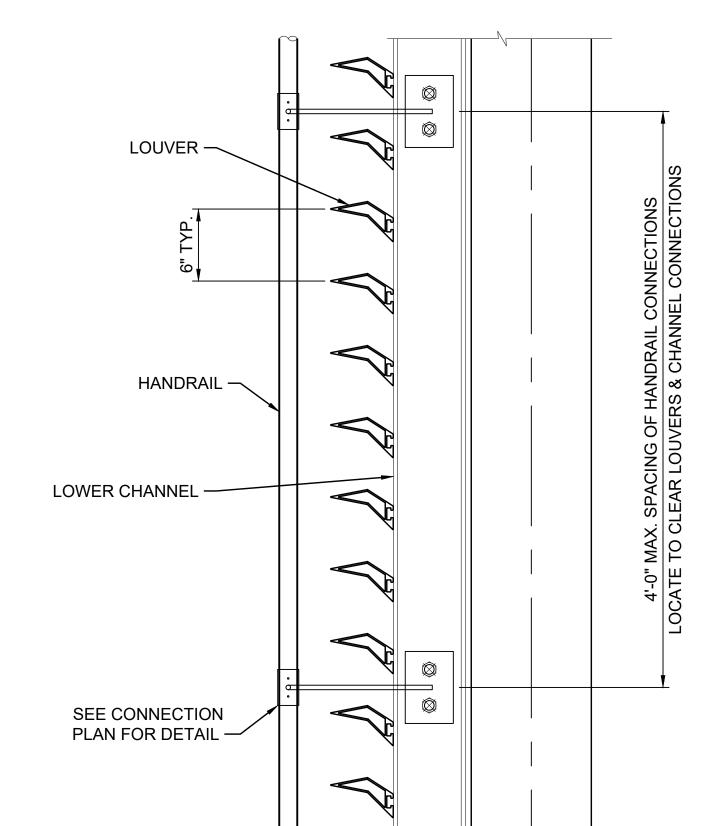
- 1. FABRICATE TRUSS CONNECTIONS AND CONFIRM VERTICAL
- ALIGNMENT OF CHANNELS IN SHOP.
- 2. ALIGN CURB CONNECTION WITH TRUSS CONNECTIONS IN FIELD.
- PLACE GROUT PAD AND TIGHTEN CURB BOLTS.
- 3. INSTALL THROW BARRIER, WITH LACING PLATES AT TRUSS CONNECTIONS.
- 4. ATTACH LOUVERS TO CURB ANGLE.
- 5. ATTACH LOUVERS TO LOWER AND UPPER FRICTION CONNECTION, CHECKING VERTICAL ALIGNMENT PRIOR TO FINAL TIGHTENING.

	10	00% SUBMITTAL	DESIGNED BY:  A. SELLADURAI DRAWN BY:  T. KOONS CHECKED BY:  B. FISH	PRELIMINARY ENGINEERING NOT FOR CONSTRUCTION	TY-LININTERNATIONAL engineers   planners   scientists	KIEWIT-I EAST LINK C	HOFFMAN	NE ULL	SOUNDTRANSIT	SCALE: AS NOTED FILENAME: E360-B25-SPD450 CONTRACT No.: RTA/CN 0122-13	CONTRACT E360  SR 520 TO OVERLAKE TRANSIT CENTER  OVERLAKE VILLAGE PEDESTRIAN BRIDGE	B25-SPD450  ACILITY ID: B25  SHEET No.: REV:	
			APPROVED BY:	CONCTRUCTION	SUBMITTED BY:	DATE:	REVIEWED BY:		DATE:	SUBMITTAL DATE:		101 0	
ATF	DSN	CHK APP REVISION	A. SELLADURAI		G. OWEN	04/02/2018	A. MENCKE		04/02/2018	04/02/2018	BARRIER DETAILS - SHEET 1	101	



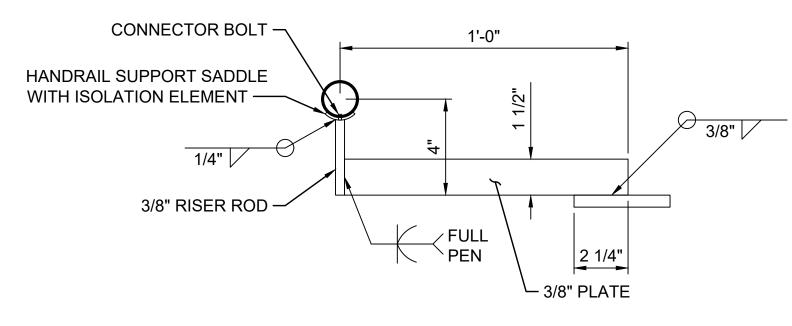
XREF LIST: xE360-GB-TB22x34.dwg xE360-GB-TB22x34\_TYLI LOGO.dwg xE360-B25-AWP020.dwg xE360-B25-AWX001.dwg xE360-B25-SPX001.dwg



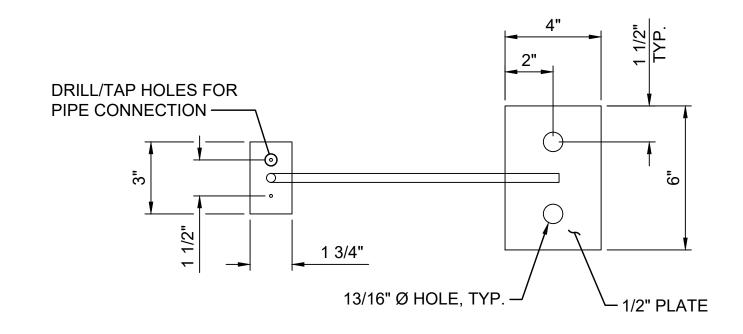


PLAN

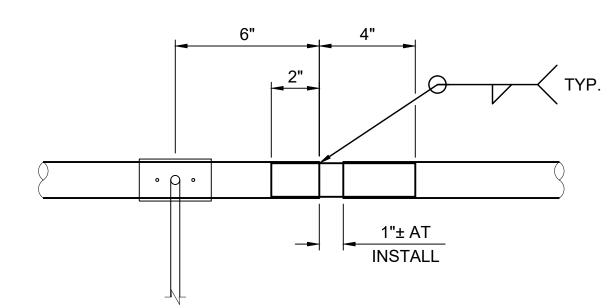
SCALE: 1 1/2" = 1'-0"



HANDRAIL CONNECTION - SECTION



# HANDRAIL CONNECTION - PLAN



# HANDRAIL EXPANSION JOINT - PLAN

EXPANSION SLEEVE TO BE 1" STD PIPE

## NOTES:

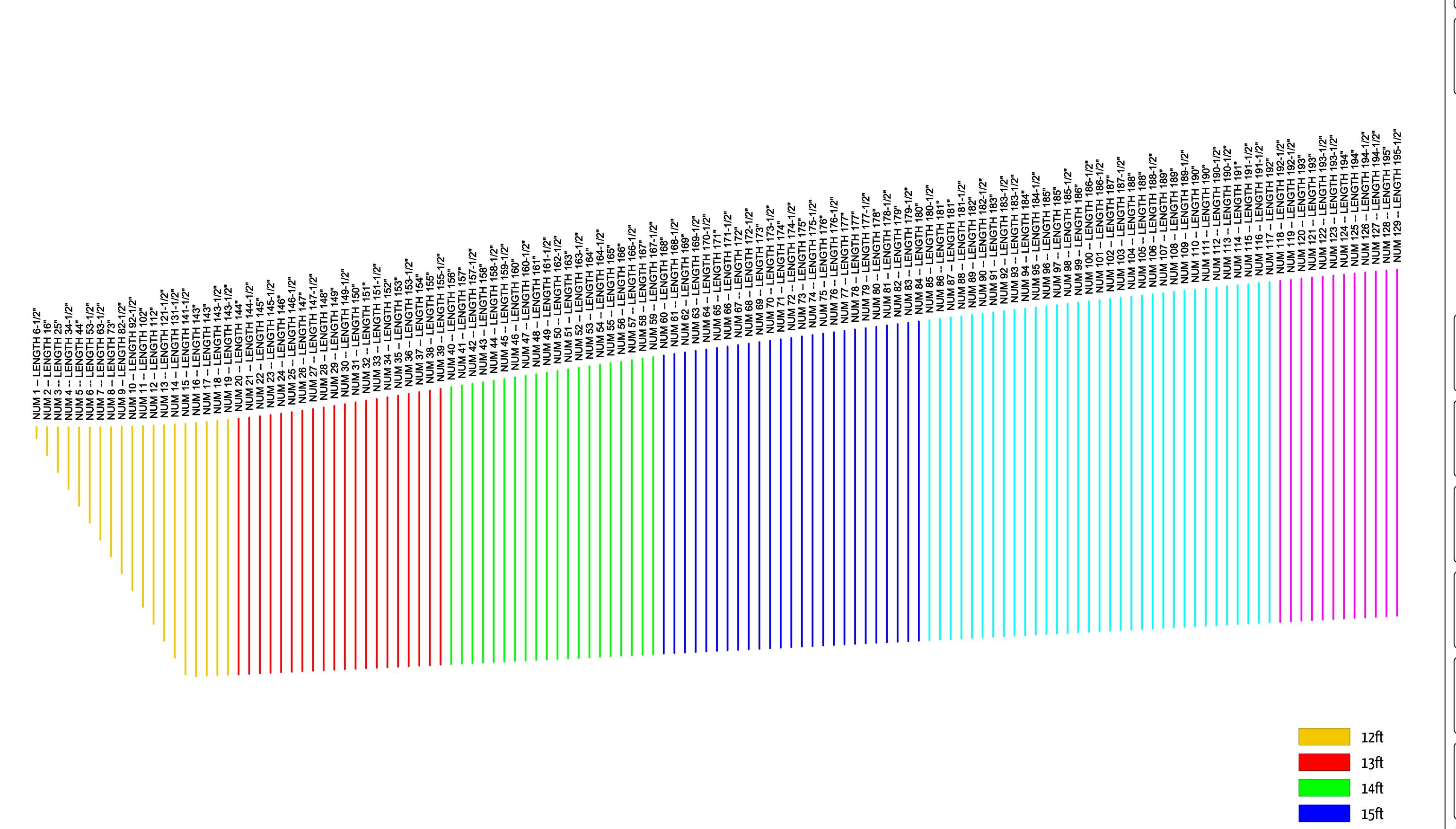
- 1. HANDRAIL TO BE STAINLESS STEEL, TYPE "HNDRL-2" PER SPECIFICATION 05 73 00, DECORATIVE METAL RAILINGS.
- ASSUMED INSTALLATION TEMPERATURE IS 64° F. INSTALLATION GAP IN HANDRAIL SHALL BE ADJUSTED FOR ACTUAL TEMPERATURE AT INSTALLATION.
- 3. HANDRAIL EXPANSION JOINTS SHALL BE LOCATED AT 100 FT MAXIMUM.
- ALL PLATES TO BE FINISHED AND PAINTED SAME AS MAIN STRUCTURAL TRUSS MEMBERS.

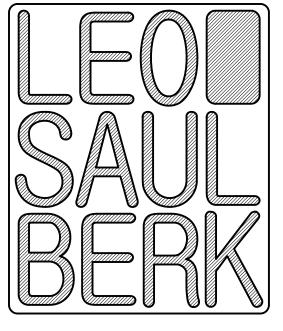
	100%	SUBMITTAL	DESIGNED BY:  A. SELLADURAI  DRAWN BY:	PRELIMINARY ENGINEERING	TY:LININTERNATIONAL	KIEWIT-	HOFFMAN	S 1" AT SCALE		SCALE: AS NOTED FILENAME:	EAST LINK EXTENSION CONTRACT E360	DRAWING No.: <b>B25-SP</b>	PD452
			T. KOONS	ENGINEERING	engineers   planners   scientists	EAST LINK C	OMETRICTORS			E360-B25-SPD452	SR 520 TO OVERLAKE TRANSIT CENTER	FACILITY ID:	
			CHECKED BY:	NOT FOR		CASI LINK U	UNSTRUCTURS		SoundTransit	CONTRACT No.:	OVERLAKE VILLAGE PEDESTRIAN BRIDGE	B25	<b>2</b> 5
			B. FISH					_	JUDITANII I	RTA/CN 0122-13	STRUCTURAL	SHEET No.:	REV:
			APPROVED BY:	CONSTRUCTION	SUBMITTED BY:	DATE:	REVIEWED BY:		DATE:	SUBMITTAL DATE:		103	0
DATE	DSN CHK APP	REVISION	A. SELLADURAI		G. OWEN	04/02/2018	A. MENCKE		04/02/2018	04/02/2018	BARRIER DETAILS - SHEET 3	.50	ŭ

04/09/18 | 3:58 PM | CHOVELL T:\OLYMPIA\PROJECTS\500079.01\600 CADD\PDF\20



OVS Ped Bridge Artwork Louver Cut List





3327 S MORGAN ST SEATTLE, WA 98118 206 234 4970 leo@leosaulberk.com

OVERLAKE VILLAGE PEDESTRIAN BRIDGE ARTWORK

> OVERLAKE TRANSIT CENTER

SOUND TRANSIT

FINAL DESIGN

EXTRUSION
NUMBERING AND
LENGTHS WEST

DRAWN BY LSB

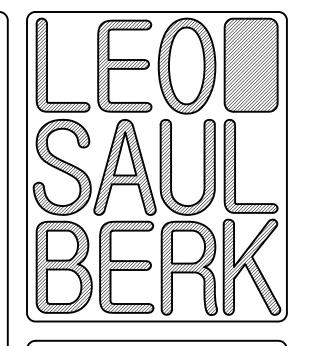
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A402

16ft

17ft

12ft 13ft 14ft 15ft 16ft



3327 S MORGAN ST SEATTLE, WA 98118 206 234 4970 leo@leosaulberk.com

OVERLAKE VILLAGE PEDESTRIAN BRIDGE ARTWORK

> OVERLAKE TRANSIT CENTER

SOUND TRANSIT

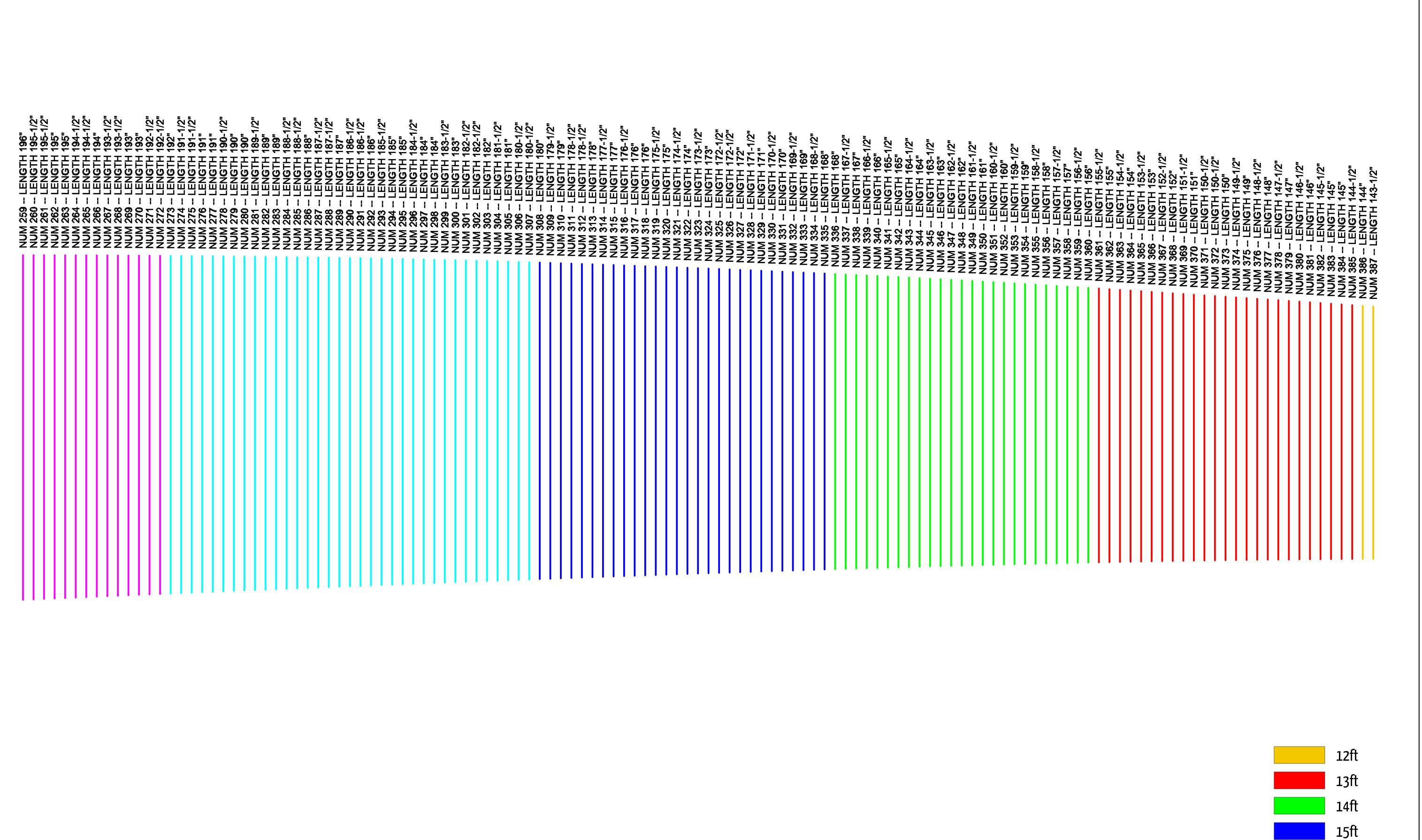
FINAL DESIGN

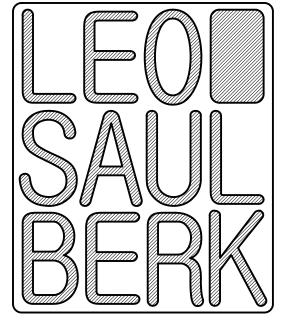
EXTRUSION
NUMBERING AND
LENGTHS
MIDDLE WEST

DRAWN BY LSB

A402

17ft





3327 S MORGAN ST SEATTLE, WA 98118 206 234 4970 leo@leosaulberk.com

OVERLAKE VILLAGE PEDESTRIAN BRIDGE ARTWORK

> OVERLAKE TRANSIT CENTER

SOUND TRANSIT

FINAL DESIGN

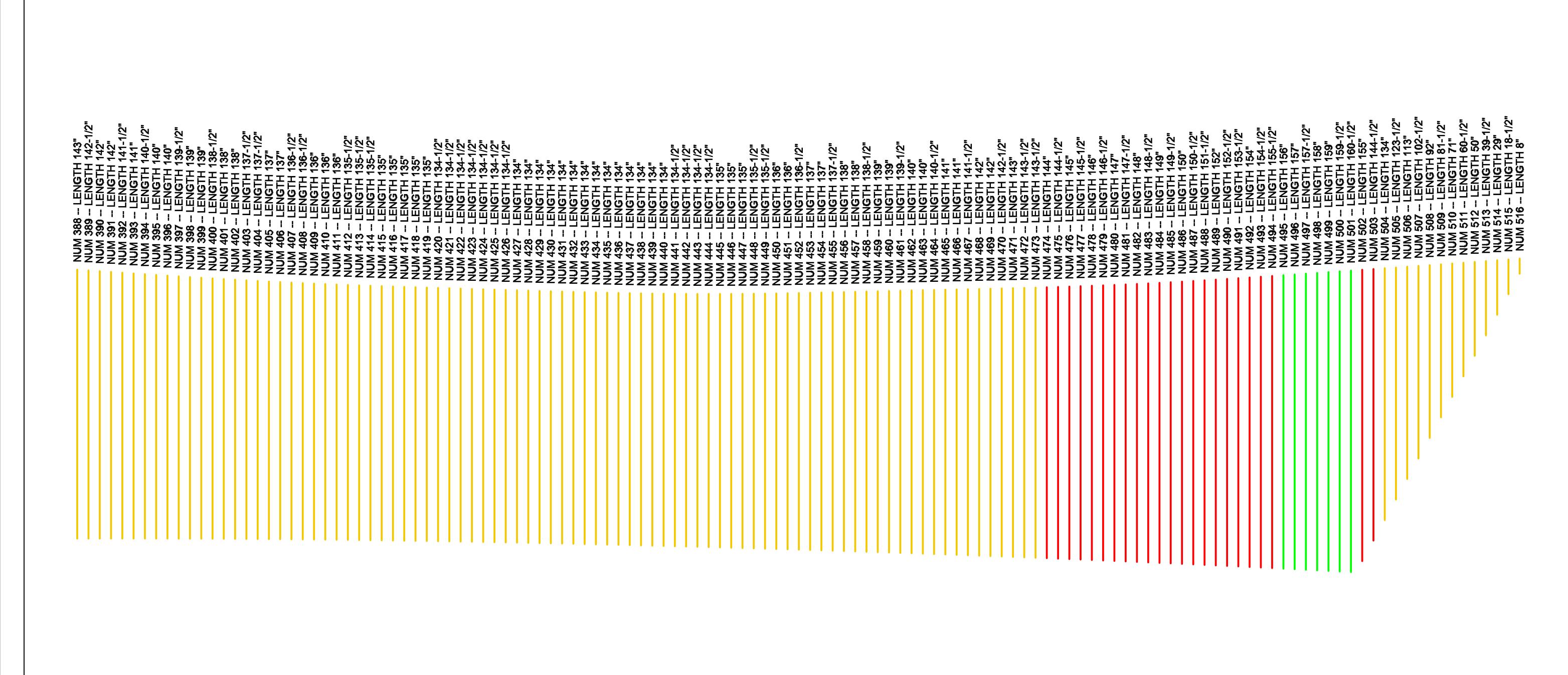
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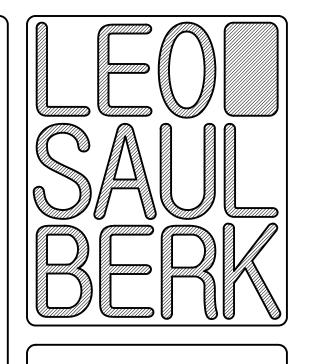
DRAWN BY LSB

A402

16ft

17ft





3327 S MORGAN ST SEATTLE, WA 98118 206 234 4970 leo@leosaulberk.com

OVERLAKE VILLAGE PEDESTRIAN BRIDGE ARTWORK

> TRANSIT CENTER

**OVERLAKE** 

SOUND TRANSIT

FINAL DESIGN

EXTRUSION
NUMBERING AND
LENGTHS EAST

DRAWN BY LSB

12ft

13ft

14ft

15ft

16ft

17ft

A402



OVS Ped Bridge Artwork Louver Identification List

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349			FALSE	FALSE	FALSE	FALSE
350			FALSE	FALSE	FALSE	FALSE
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257		]	<b>541.05</b>	<b>-410</b>	<b>-110</b>	<b>51105</b>
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358					FALSE	
359					FALSE	
360		FALSE				
361			FALSE	FALSE	FALSE	FALSE
362			FALSE	FALSE	FALSE	FALSE
363			FALSE	FALSE	FALSE	FALSE
364			FALSE	FALSE	FALSE	FALSE
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369	9		FALSE	FALSE	FALSE	FALSE
370	#1		FALSE	FALSE	FALSE	FALSE
371	Crate		FALSE	FALSE	FALSE	FALSE
372	Ö		FALSE	FALSE	FALSE	FALSE
373			FALSE	FALSE	FALSE	FALSE
374			FALSE	FALSE	FALSE	FALSE
375			FALSE	FALSE	FALSE	FALSE
376			FALSE	FALSE	FALSE	FALSE
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389	20		FALSE	FALSE	FALSE	FALSE
390	Crate #20		FALSE	FALSE	FALSE	FALSE
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393			FALSE	FALSE	FALSE	FALSE
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409	21		FALSE	FALSE	FALSE	FALSE
410	Crate #21		FALSE	FALSE	FALSE	FALSE
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412	S		FALSE	FALSE	FALSE	FALSE
413			FALSE	FALSE	FALSE	FALSE
414			FALSE	FALSE	FALSE	FALSE
415			FALSE	FALSE	FALSE	FALSE
416			FALSE	FALSE	FALSE	FALSE
417			FALSE	FALSE	FALSE	FALSE
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426			FALSE	FALSE	FALSE	FALSE
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429	22		FALSE	FALSE	FALSE	FALSE
430	Crate #22		FALSE	FALSE	FALSE	FALSE
431	atí		FALSE	FALSE	FALSE	FALSE
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433			FALSE	FALSE	FALSE	FALSE
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439			FALSE	FALSE	FALSE	FALSE
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441		FALSE	FALSE	FALSE	FALSE
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448		FALSE	FALSE	FALSE	FALSE
449	23	FALSE	FALSE	FALSE	FALSE

	#5	I 1				
450	<b>#</b>		FALSE	FALSE	FALSE	FALSE
451	Crate		FALSE	FALSE	FALSE	FALSE
452	C		FALSE	FALSE	FALSE	FALSE
453			FALSE	FALSE	FALSE	FALSE
454			FALSE	FALSE	FALSE	FALSE
455			FALSE	FALSE	FALSE	FALSE
456			FALSE	FALSE	FALSE	FALSE
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469	#24		FALSE	FALSE	FALSE	FALSE
470	# 6		FALSE	FALSE	FALSE	FALSE
471	Crate		FALSE	FALSE	FALSE	FALSE
472	Cr		FALSE	FALSE	FALSE	FALSE
473			FALSE	FALSE	FALSE	FALSE
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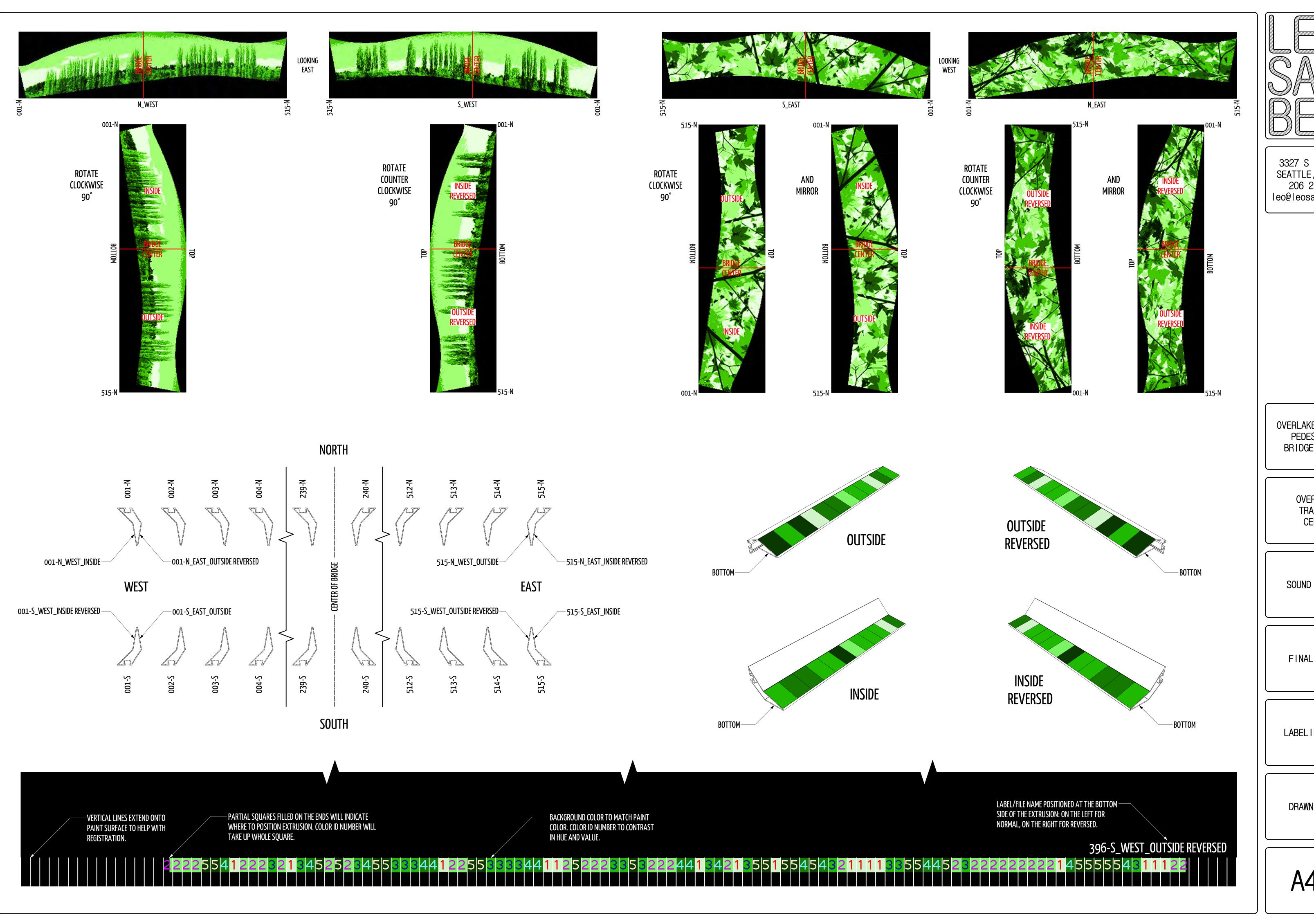
Crate #2

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FALSE	FALSE	FALSE	FALSE
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500		FALSE	FALSE	FALSE	FALSE	FALSE
501		TALOL				
			FALSE	FALSE	FALSE	FALSE
<b>502</b>			FALSE	FALSE	FALSE	FALSE
503			FALSE	FALSE	FALSE	FALSE
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506	ယ္		FALSE	FALSE	FALSE	FALSE
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<b>508</b>	te		FALSE	FALSE	FALSE	FALSE
<b>509</b>	ra		FALSE	FALSE	FALSE	FALSE
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511			FALSE	FALSE	FALSE	FALSE
512			FALSE	FALSE	FALSE	FALSE
513			FALSE	FALSE	FALSE	FALSE
514			FALSE	FALSE	FALSE	FALSE
515		FALSE	FALSE	FALSE	FALSE	FALSE
TOTAL						



OVS Ped Bridge Artwork Labeling Guide



3327 S MORGAN ST SEATTLE, WA 98118 206 234 4970 leo@leosaulberk.com

OVERLAKE VILLAGE PEDESTRIAN BRIDGE ARTWORK

> OVERLAKE TRANSIT CENTER

SOUND TRANSIT

FINAL DESIGN

LABELING GUIDE

DRAWN BY LSB

A410



OVS Ped Bridge Artwork Painting Composite Images Diagram



### BRIDGE EXTERIOR WITH ARTWORK



IMAGE ON EAST INTERIOR OF BRIDGE (LINE OF TRAVEL TO EAST)

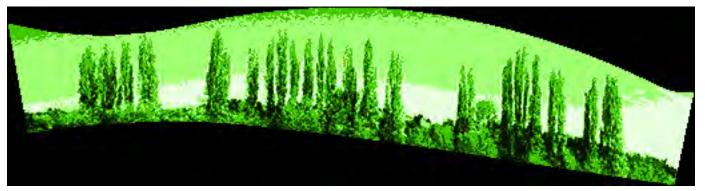


IMAGE ON EAST INTERIOR OF BRIDGE (LINE OF TRAVEL TO WEST)



IMAGE ON WEST INTERIOR OF BRIDGE (LINE OF TRAVEL TO EAST)



IMAGE ON WEST INTERIOR OF BRIDGE (LINE OF TRAVEL TO WEST)



Sound Transit Art Program (STart) 401 S Jackson St Seattle WA 98104 206-903-7665 phone kurt.kiefer@soundtransit.org

OVERLAKE VILLAGE STATION LEO SAUL BERK, PEDESTRIAN BRIDGE ARTWORK DECEMBER 11, 2018



OVS Ped Bridge Primer Amerlock 2 Product Data and MSDS Sheets

### AMERLOCK® 2 / SIGMACOVER™ 2

#### DESCRIPTION

Two-component, high solids epoxy coating

#### PRINCIPAL CHARACTERISTICS

- Low-temperature curing down to 0°C (32°F)
- High performance self priming universal epoxy
- · High solids, low VOC
- · Surface tolerant and abrasion resistant
- · Compatible with prepared, damp surfaces
- Good adhesion on most existing coatings
- · Good resistance to splash and spillage of chemicals
- Meets NSF Standard 61 for tanks, pipes, valves and fittings (US manufacturing only)
- · Proven coating as a bulk rail lining and DTM exterior coating

#### **COLOR AND GLOSS LEVEL**

- · Standard primer colors and custom colors
- Semi-gloss

Note: Epoxy coatings will chalk and fade with exposure to sunlight. Light colors are prone to ambering to some extent. Note that product tinted to custom colors are not recommended for immersion service. Only use factory grind batches for immersion

#### BASIC DATA AT 10°C (50°F)

Data for mixed product	A 1	
Number of components	Two	
Mass density	1.4 kg/l (11.7 lb/US gal)	
Volume solids	85 ± 2%	
VOC (Supplied)	Directive 1999/13/EC, SED: max. 114.0 g/kg max. 163.0 g/l (approx. 1.4 lb/US gal) EPA Method 24: 1.5 lb/US gal (180.0 g/l)	
Temperature resistance (Continuous)	To 120°C (250°F)	
Temperature resistance (Intermittent)	To 175°C (350°F)	
Recommended dry film thickness	100 - 200 μm (4.0 - 8.0 mils)	
Theoretical spreading rate	8.5 m²/l for 100 µm (341 ft²/US gal for 4.0 mils)	
Dry to touch	6 hours	
Overcoating Interval	See overcoating tables	

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### AMERLOCK® 2 / SIGMACOVER™ 2

Data for mixed product		
Shelf life	Base: at least 36 months when stored cool and dry Hardener: at least 24 months when stored cool and dry	

#### Notes:

- See ADDITIONAL DATA Spreading rate and film thickness
- See ADDITIONAL DATA Overcoating intervals
- See ADDITIONAL DATA Curing time
- For compliance with regulations which require VOC less than 100 g/L, AMERLOCK 2 VOC can be specified interchangeably
- AMERLOCK 2 VOC is available only in US and Canada
- Intermittent temperature resistance should be less than 5% of the time, and maximum 24 hours
- Temperature resistance is in atmospheric condition. Please contact your PPG representative for immersion condition.

#### RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Coating performance is proportional to the degree of surface preparation. Remove all loose paint, mill scale, and rust.
 The surface to be coated must be dimensionally stable, dry, clean and free of grease, oil, and other foreign materials.
 When proper abrasive blast surface preparation is not practical, surfaces should be chipped clean and wire brushed to bare, clean material

#### Carbon steel

- For immersion service: steel; blast cleaned to ISO-Sa2½ (SSPC SP-10)
- For atmospheric service, abrasive blast to ISO-Sa2½ or minimum SSPC SP-6, power tool cleaned to ISO-St3 (SSPC SP-3) or hand tool cleaned to ISO-St2 (SSPC SP-2) or ultra high pressure water jet to SSPC SP WJ-2(L) / NACE WJ-2(L)

#### Concrete / Masonry

- Remove grease, oil and other penetrating contaminants according to ASTM D4258
- Abrade the surface per ASTM D4259 to remove all chalk and surface glaze or laitance. Achieve surface profile ICRI CSP 3 to 5
- Fill voids as necessary with AMERCOAT 114 A epoxy filler
- Maximum recommended moisture transmission rate is 3 lbs /1,000 ft2 / 24 hours by moisture transmission test (ASTM F1869, calcium chloride test or by ASTM D4263, plastic sheet test)
- Alternatively, ASTM D4944 (Calcium Carbide Gas method) can be used, moisture content should not exceed 4%

#### Galvanized steel

- Remove oil or soap film with detergent or emulsion cleaner
- Lightly abrasive blast with a fine abrasive in accordance with SSPC SP-16 guidelines to achieve a profile of 40 75 µm (1.5 3.0 mils). When light abrasive blasting is not possible, galvanizing can be treated with a suitable zinc phosphate conversion coating
- Galvanizing that has had at least 12 months of exterior weathering may be coated after power washing to remove all
  contaminants and white rust

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### Non-ferrous metals and stainless steel

- Remove all rust, dirt, moisture, grease or other contaminants from the surface
- Lightly abrasive blast with a fine abrasive in accordance with SSPC SP-16 guidelines to achieve a profile of 40 100 μm (1.5 - 4.0 mils)

### Aged coatings and repairs

- · Aged suitable coating must be dry and free from any contamination
- · For single-pack coatings, extra precautions are necessary

#### Substrate temperature

- Substrate temperature during application and curing should be between 0°C (32°F) and 50°C (122°F).
- Substrate temperature during application and curing should be at least 3°C (5°F) above dew point

#### SYSTEM SPECIFICATION

- Primers: Direct to substrate; DIMETCOTE Series, AMERCOAT 68 Series, AMERLOCK 2 / 400 Series, SIGMAZINC Series, AMERCOAT Epoxies and SIGMA Epoxies
- Topcoats: AMERCOAT 450 Series, SIGMADUR Series, SIGMACOVER Epoxies, AMERCOAT Epoxies, AMERSHIELD and PSX 700

Note: Please contact your PPG representative if using an alternate primer

#### INSTRUCTIONS FOR USE

### Mixing ratio by volume: base to hardener 50:50 (1:1)

- The paint should be stirred well before use, preferably by means of a mechanical mixer, to ensure homogeneity
- · Add hardener to base and continue stirring until homogeneous

### Induction time

Mixed product induction time			
Mixed product temperature	Induction time		
0°C (32°F)	45 minutes		
10°C (50°F)	30 minutes		
15°C (59°F)	20 minutes		
20°C (68°F)	10 minutes		
Above 23°C (73°F)	None		

### Pot life

2 hours at 10°C (50°F)

Note: See ADDITIONAL DATA - Pot life

pPG

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#### Air spray

#### Recommended thinner

THINNER 91-92 FOR GLOBAL, THINNER 21-06 (AMERCOAT 65) FOR NSF/ANSI 61, THINNER 91-82 (AMERCOAT T10) for NON NSF/ANSI 61 and \< 90°F (32°C), THINNER 21-25 (AMERCOAT 101) for NON NSF/ANSI 61 and > 90°F (32°C)

#### Volume of thinner

0 - 10%, depending on required thickness and application conditions

#### Airless spray

#### Recommended thinner

THINNER 91-92 FOR GLOBAL, THINNER 21-06 (AMERCOAT 65) FOR NSF/ANSI 61, THINNER 91-82 (AMERCOAT T10) for NON NSF/ANSI 61 and \< 90°F (32°C), THINNER 21-25 (AMERCOAT 101) for NON NSF/ANSI 61 and > 90°F (32°C)

#### Volume of thinner

0 - 5%, depending on required thickness and application conditions

#### Nozzle orifice

Approx. 0.48 mm (0.019 in)

### Nozzle pressure

15.0 - 18.0 MPa (approx. 150 - 180 bar; 2176 - 2611 p.s.i.)

### Brush/roller

- Apply evenly using a well-loaded brush or roller
- Application by brush or roller will provide approximately 80 µm (3.1 mils) DFT in a single-coat application

### Cleaning solvent

THNNER 90-53, THINNER 90-58 (AMERCOAT 12) OR THINNER 21-06 (AMERCOAT 65)

### ADDITIONAL DATA

Spreading rate and film thickness		
DFT	Theoretical spreading rate	
100 µm (4.0 mils)	8.5 m²/l (341 ft²/US gal)	
125 µm (5.0 mils)	6.8 m²/l (273 ft²/US gal)	
200 µm (8.0 mils)	4.3 m²/l (170 ft²/US gal)	



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Overcoating interval for DFT up to 200 µm (8.0 mils)					
Overcoating with	Interval	5°C (41°F)	10°C (50°F)	20°C (68°F)	30°C (86°F)
itself and various two-	Minimum	24 hours	12 hours	6 hours	3 hours
pack epoxy coatings	Maximum	1 month	1 month	1 month	1 month
urethane and PSX	Minimum	24 hours	12 hours	6 hours	3 hours
	Maximum	14 days	14 days	7 days	4 days

#### Notes:

- Surface should be dry and free from any contamination
- A detergent wash with PREP 88, SIGMARITE 88 or equivalent is required prior to application of topcoats after 30 days of exposure
- If maximum recoat time has been exceeded, roughen surfaces
- Alkyd coatings and waterborne acrylic coatings should be applied after the film is dry to handle and not greater than three times dry to handle time
- Maximum recoating time is highly dependent upon actual surface temperature not simply air temperatures. Sun-exposed or otherwise heated surface will shorten the maximum recoat window

Curing time for DFT up to 200 µm (8.0 mils)			
Substrate temperature	Dry to handle	Full cure	
0°C (32°F)	38 hours	21 days	
10°C (50°F)	14 hours	7 days	
20°C (68°F)	5 hours	4 days	
30°C (86°F)	3 hours	3 days	

Note: Adequate ventilation must be maintained during application and curing (please refer to INFORMATION SHEETS 1433 and 1434)

Pot life (at application viscosity)		
Mixed product temperature	Pot life	
0°C (32°F)	4 hours	
10°C (50°F)	2 hours	
20°C (68°F)	1 hour	
30°C (86°F)	30 minutes	

### **Product Qualifications**

- NORSOK M501 Rev. 5, System 7 Subsea surfaces
- · Compliant with USDA Incidental Food Contact Requirements
- NFPA Class A for Flame Spread and Smoke Development
- Qualified for ANSI/NSF Standard 61 (potable water). For NSF application instructions, please visit the following website: http://www.nsf.org/certified-products-systems/
- AWWA D102-06 ICS #1, #2, #3, #5
- Nuclear Service Level 2 (ANSI N 5.12, ANSI N 101.2)
- LEED's compliant for Anti-corrosive Paint category

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#### SAFETY PRECAUTIONS

- For paint and recommended thinners see INFORMATION SHEETS 1430, 1431 and relevant Material Safety Data Sheets
- This is a solvent-borne paint and care should be taken to avoid inhalation of spray mist or vapor, as well as contact between the wet paint and exposed skin or eyes

#### WORLDWIDE AVAILABILITY

It is always the aim of PPG Protective and Marine Coatings to supply the same product on a worldwide basis. However, slight modification of the product is sometimes necessary to comply with local or national rules/circumstances. Under these circumstances an alternative product data sheet is used.

#### REFERENCES

	CONVERSION TABLES	INFORMATION SHEET	1410
	EXPLANATION TO PRODUCT DATA SHEETS	INFORMATION SHEET	1411
•	SAFETY INDICATIONS	INFORMATION SHEET	1430
	SAFETY IN CONFINED SPACES AND HEALTH SAFETY, EXPLOSION HAZARD - TOXIC HAZARD	INFORMATION SHEET	1431
	A Delica and the Control of the Cont		
	SAFE WORKING IN CONFINED SPACES	INFORMATION SHEET	1433
	DIRECTIVES FOR VENTILATION PRACTICE	INFORMATION SHEET	1434
	CLEANING OF STEEL AND REMOVAL OF RUST	INFORMATION SHEET	1490
•	SPECIFICATION FOR MINERAL ABRASIVES	INFORMATION SHEET	1491
	SURFACE PREPARATION OF CONCRETE (FLOORS)	INFORMATION SHEET	1496
	RELATIVE HUMIDITY - SUBSTRATE TEMPERATURE - AIR TEMPERATURE	INFORMATION SHEET	1650

#### WARRANTY

PPG warrants (i) its title to the product, (ii) that the quality of the product conforms to PPG's specifications for such product in effect at the time of manufacture and (iii) that the product shall be delivered free of the rightful claim of any third person for infringement of any U.S. patent covering the product. THESE ARE THE CMLY WARRANTIES THAT PPG MAKES AND ALL OTHER EXPRESS OR IMPUED WARRANTIES, UNDER STATUTE OR ARISING OTHERWISE IN LAW, FROM A COURSE OF DEALING OR USAGE OF TRADE, INCLUDING WITHOUT LIMITATION, ANY OTHER WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR USE, ARE DISCLAIMED BY PPG. Any claim under this warranty must be made by Buyer to PPG in writing within five (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life of the product, or one year from the date of the delivery of the product to the Buyer, whichever is carrier. Buyer's failure to notify PPG of such non-conformance as required herein shall bur Buyer from recovery under this warranty.

#### LIMITATIONS OF LIABILITY

IN NO EVENT WILL PPG BE LIABLE UNDER ANY THEORY OF RECOVERY (WHETHER BASED ON NEGLIGENCE OF ANY WIND, STRICT LIABILITY OR TORT) FOR ANY INDERECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES IN ANY WAY RELATED TO, ARISING FROM, OR RESULTING FROM ANY USE MADE OF THE PRODUCT. The information in this sheet is intended for guidance only and is based upon laboratory tests that PPG believes to be reliable. PPG may modify the information contained herein at any time as a result of practical experience and continuous product development. All recommendations or suggestions relating to the use of the PPG product, whether in technical documentation, or in response to a specific inquiry, or otherwise, are based on data, which to the best of PPG's knowledge, is reliable. The product and related information is designed for users having the requisite knowledge and industrial skills in the industry and it is the end-user's responsibility to determine the suitability of the product for the product and related information is designed for users having the requisite knowledge and industrial skills in the industry and it is the end-user's responsibility to determine the suitability of the owners are used to the substrate, or the many factors affecting the use and application of the product. Therefore, PPG does not accept any liability arising from any loss, injury or damage resulting from such use or the contents of this information (unless there are weighted in the product. Therefore, PPG does not accept any liability arising from any loss, injury or damage resulting from such use or the contents of this information (unless there are weighted in the product. Therefore, PPG does not accept any liability arising from any loss, injury or damage resulting from such use or the contents of this information in the application environment, changes in procedures of use, or extrapolation of data may cause unsubstractory results. This sheet approach all provious ventions and it is the Buyer's responsibility to ensure that this information i

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# SAFETY DATA SHEET



Date of issue/Date of revision 20 November 2020

Version 31.01

## **Section 1. Identification**

Product name : AMERLOCK 2 CURE

Product code : 00333621

Other means of : Not available.

identification Product type

: Liquid.

### Relevant identified uses of the substance or mixture and uses advised against

Product use : Industrial applications, Used by spraying.

Use of the substance/

mixture

: Coating.

Uses advised against : Not applicable.

Manufacturer : PPG Industries, Inc.

One PPG Place Pittsburgh, PA 15272 : (412) 434-4515 (U.S.)

**Emergency telephone** 

number

(514) 645-1320 (Canada)

SETIQ Interior de la República: 800-00-214-00 (México) SETIQ Ciudad de México: (55) 5559-1588 (México)

**Technical Phone Number**: 888-977-4762

## Section 2. Hazards identification

**OSHA/HCS** status

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

: FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4

SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2

TOXIC TO REPRODUCTION - Category 2

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 6.4%

(oral), 31.7% (dermal), 71.4% (inhalation)

**GHS label elements** 

United States Page: 1/18

Product code 00333621

Date of issue 20 November 2020 Version 31.01

**Product name AMERLOCK 2 CURE** 

### Section 2. Hazards identification

### **Hazard pictograms**









Signal word

**Hazard statements** 

: Danger

: Flammable liquid and vapor.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

Harmful if inhaled.

May cause respiratory irritation. Suspected of causing cancer.

Suspected of damaging fertility or the unborn child.

May cause damage to organs through prolonged or repeated exposure. (hearing organs)

### **Precautionary statements**

**Prevention** 

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

Response

: IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

**Storage** 

: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

**Disposal** 

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements

: Sanding and grinding dusts may be harmful if inhaled. Do not taste or swallow. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated.

Hazards not otherwise classified

: Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation.

United States Page: 2/18

Product code 00333621

**Product name AMERLOCK 2 CURE** 

# Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Product name : AMERLOCK 2 CURE

Ingredient name	%	CAS number
Talc , not containing asbestiform fibres	≥20 - ≤50	14807-96-6
barium sulfate	≥20 - ≤27	7727-43-7
xylene	≥5.0 - ≤11	1330-20-7
4-nonylphenol, branched	≥5.0 - ≤8.8	84852-15-3
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil	≥5.0 - ≤10	68082-29-1
fatty acids and triethylenetetramine		
m-phenylenebis(methylamine)	≥1.0 - ≤4.1	1477-55-0
4-tert-butylphenol	≥1.0 - ≤4.1	98-54-4
benzyl alcohol	≥1.0 - ≤3.8	100-51-6
Poly[oxy(methyl-1,2-ethanediyl)], α-	≥0.10 - ≤2.9	9046-10-0 (n = 2-6)
(2-aminomethylethyl)-ω-(2-aminomethylethoxy)-		, ,
ethylbenzene	≤2.0	100-41-4
Phenol, 2-nonyl-, branched	<1.0	91672-41-2

SUB codes represent substances without registered CAS Numbers.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

### **Description of necessary first aid measures**

**Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.

Inhalation : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is

irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained

personnel.

**Skin contact**: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water

or use recognized skin cleanser. Do NOT use solvents or thinners.

Ingestion : If swallowed, seek medical advice immediately and show this container or label. Keep

person warm and at rest. Do NOT induce vomiting.

### Most important symptoms/effects, acute and delayed

### Potential acute health effects

**Eye contact** : Causes serious eye damage.

Inhalation : Harmful if inhaled. May cause respiratory irritation.

**Skin contact**: Causes severe burns. Defatting to the skin. May cause an allergic skin reaction.

**Ingestion** : Corrosive to the digestive tract. Causes burns.

Over-exposure signs/symptoms

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### Section 4. First aid measures

**Eye contact**: Adverse symptoms may include the following:

pain watering redness

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

reduced fetal weight increase in fetal deaths skeletal malformations

**Skin contact**: Adverse symptoms may include the following:

pain or irritation redness

dryness cracking

blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations

**Ingestion**: Adverse symptoms may include the following:

stomach pains reduced fetal weight increase in fetal deaths skeletal malformations

### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments**: No specific treatment.

**Protection of first-aiders**: No action shall be taken involving any personal risk or without suitable training. If it is

suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water

before removing it, or wear gloves.

### See toxicological information (Section 11)

# Section 5. Fire-fighting measures

### **Extinguishing media**

Suitable extinguishing

: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

Unsuitable extinguishing

media

: Do not use water jet.

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# Section 5. Fire-fighting measures

Specific hazards arising from the chemical

: Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products

: Decomposition products may include the following materials: carbon oxides

nitrogen oxides sulfur oxides metal oxide/oxides

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

# Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders:

: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

### Methods and materials for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

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### Section 6. Accidental release measures

# Section 7. Handling and storage

### **Precautions for safe handling**

**Protective measures** 

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Special precautions** 

Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

including any incompatibilities

Conditions for safe storage, : Do not store above the following temperature: 50°C (122°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

# Section 8. Exposure controls/personal protection

**Control parameters** 

Occupational exposure limits

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# Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits
Talc , not containing asbestiform fibres	ACGIH TLV (United States, 3/2019).
	TWA: 2 mg/m³ 8 hours. Form: Respirable
	OSHA PEL Z3 (United States).
	TWA: 2 mg/m <sup>3</sup>
barium sulfate	ACGIH TLV (United States, 3/2019).
	TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Inhalable
	fraction
	OSHA PEL (United States, 5/2018).
	TWA: 5 mg/m³ 8 hours. Form: Respirable
	fraction
	TWA: 15 mg/m <sup>3</sup> 8 hours. Form: Total dust
xylene	ACGIH TLV (United States, 3/2019).
	STEL: 651 mg/m³ 15 minutes.
	STEL: 150 ppm 15 minutes.
	TWA: 434 mg/m <sup>3</sup> 8 hours.
	TWA: 100 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 435 mg/m <sup>3</sup> 8 hours.
	TWA: 100 ppm 8 hours.
4-nonylphenol, branched	None.
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-	None.
oil fatty acids and triethylenetetramine	
m-phenylenebis(methylamine)	ACGIH TLV (United States, 3/2019).
	Absorbed through skin.
	C: 0.018 ppm
4-tert-butylphenol	None.
benzyl alcohol	IPEL (PPG).
	TWA: 5 ppm
	STEL: 10 ppm
Poly[oxy(methyl-1,2-ethanediyl)], α-	None.
(2-aminomethylethyl)-ω-(2-aminomethylethoxy)-	
ethylbenzene	ACGIH TLV (United States, 3/2019).
	TWA: 20 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 435 mg/m <sup>3</sup> 8 hours.
	TWA: 100 ppm 8 hours.
Phenol, 2-nonyl-, branched	None.

### Key to abbreviations

Α	= Acceptable Maximum Peak	S	<ul> <li>Potential skin absorption</li> </ul>
ACGIH	= American Conference of Governmental Industrial Hygienists.	SR	<ul> <li>Respiratory sensitization</li> </ul>
С	= Ceiling Limit	SS	= Skin sensitization
F	= Fume	STEL	<ul> <li>Short term Exposure limit values</li> </ul>
IPEL	= Internal Permissible Exposure Limit	TD	= Total dust
OSHA	<ul> <li>Occupational Safety and Health Administration.</li> </ul>	TLV	= Threshold Limit Value

R = Respirable TWA
Z = OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances

### Consult local authorities for acceptable exposure limits.

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= Time Weighted Average

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# Section 8. Exposure controls/personal protection

procedures

**Recommended monitoring**: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**Environmental exposure** controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### **Individual protection measures**

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection **Skin protection Hand protection** 

Chemical splash goggles and face shield.

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Gloves **Body protection**  : butyl rubber

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

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## Section 9. Physical and chemical properties

**Appearance** 

Physical state : Liquid.

Color : White to yellowish.

Odor : Characteristic.

Odor threshold : Not available.

pH : Not available.

Melting point : Not available.

Boiling point : >37.78°C (>100°F)

Flash point : Closed cup: 33.33°C (92°F)

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Flammability (solid, gas) : Not available.

Lower and upper explosive : Not available.

(flammable) limits

**Evaporation rate** : 0.71 (butyl acetate = 1)

**Vapor pressure** : 1.3 kPa (9.6 mm Hg) [room temperature]

Vapor density : Not available.

Relative density : 1.42

Density ( lbs / gal ) : 11.85

**Solubility** : Insoluble in the following materials: cold water.

Partition coefficient: n-

octanol/water

: Not available.

Viscosity : Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt)

**Volatility** : 29% (v/v), 17.939% (w/w)

% Solid. (w/w) : 82.061

## Section 10. Stability and reactivity

**Reactivity**: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability**: The product is stable.

Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : When exposed to high temperatures may produce hazardous decomposition products.

Refer to protective measures listed in sections 7 and 8.

**Incompatible materials**: Keep away from the following materials to prevent strong exothermic reactions:

oxidizing agents, strong alkalis, strong acids.

Hazardous decomposition

products

: Decomposition products may include the following materials: carbon monoxide, carbon

dioxide, smoke, oxides of nitrogen.

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# Section 11. Toxicological information

### **Information on toxicological effects**

### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
barium sulfate	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
4-nonylphenol, branched	LD50 Dermal	Rabbit	2.14 g/kg	-
	LD50 Oral	Rat	1300 mg/kg	-
m-phenylenebis	LC50 Inhalation Gas.	Rat	700 ppm	1 hours
(methylamine)			• •	
,	LD50 Dermal	Rat - Male,	>3100 mg/kg	-
		Female		
	LD50 Oral	Rat	930 mg/kg	-
4-tert-butylphenol	LD50 Dermal	Rabbit	2.29 g/kg	-
, ,	LD50 Oral	Rat	2.95 g/kg	-
benzyl alcohol	LC50 Inhalation Dusts and mists	Rat	>4178 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1.23 g/kg	-
Poly[oxy(methyl-1,2-ethanediyl)],	LD50 Dermal	Rat	2980 mg/kg	-
α-			3. 3	
(2-aminomethylethyl)-ω-(2-aminomethylethoxy)-				
	LD50 Oral	Rat	2885 mg/kg	_
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
,	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-

# Conclusion/Summary

: There are no data available on the mixture itself.

# Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
4-nonylphenol, branched	Skin - Erythema/Eschar	Rabbit	4	-	-
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	Skin - Irritant	Human	-	-	-
•	Eyes - Severe irritant	Rabbit	-	-	-
m-phenylenebis (methylamine)	Skin - Severe irritant	Rat	-	4 hours	4 hours

### **Conclusion/Summary**

Skin

: There are no data available on the mixture itself.

Eyes Respiratory : There are no data available on the mixture itself.

: There are no data available on the mixture itself.

**Sensitization** 

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# Section 11. Toxicological information

Product/ingredient name	Route of exposure	Species	Result
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	skin	Mouse	Sensitizing
m-phenylenebis (methylamine)	skin	Mouse	Sensitizing

**Conclusion/Summary** 

Skin : There are no data available on the mixture itself.

Respiratory : There are no data available on the mixture itself.

**Mutagenicity** 

**Conclusion/Summary**: There are no data available on the mixture itself.

**Carcinogenicity** 

**Conclusion/Summary**: There are no data available on the mixture itself.

**Classification** 

Product/ingredient name	OSHA	IARC	NTP
xylene		3	-
ethylbenzene	-	2B	-

Carcinogen Classification code:

IARC: 1, 2A, 2B, 3, 4

NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen

OSHA: +

Not listed/not regulated: -

Reproductive toxicity

**Conclusion/Summary**: There are no data available on the mixture itself.

**Teratogenicity** 

**Conclusion/Summary**: There are no data available on the mixture itself.

Specific target organ toxicity (single exposure)

Name		Route of exposure	Target organs
Talc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation
xylene	Category 3	-	Respiratory tract irritation

### Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
ethylbenzene	Category 2	-	hearing organs

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# **Section 11. Toxicological information**

**Target organs** 

: Contains material which causes damage to the following organs: blood, kidneys, liver, heart, brain, skin, central nervous system (CNS).

Contains material which may cause damage to the following organs: lungs, the nervous system, the reproductive system, gastrointestinal tract, cardiovascular system, upper respiratory tract, ears, eye, lens or cornea.

### **Aspiration hazard**

Name	Result
	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

### Information on the likely routes of exposure

### Potential acute health effects

**Eye contact** : Causes serious eye damage.

**Inhalation** : Harmful if inhaled. May cause respiratory irritation.

**Skin contact**: Causes severe burns. Defatting to the skin. May cause an allergic skin reaction.

**Ingestion** : Corrosive to the digestive tract. Causes burns.

### Over-exposure signs/symptoms

**Eye contact**: Adverse symptoms may include the following:

pain watering redness

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

reduced fetal weight increase in fetal deaths skeletal malformations

**Skin contact**: Adverse symptoms may include the following:

pain or irritation

redness dryness cracking

blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations

**Ingestion** : Adverse symptoms may include the following:

stomach pains reduced fetal weight increase in fetal deaths skeletal malformations

### Delayed and immediate effects and also chronic effects from short and long term exposure

**Conclusion/Summary** 

There are no data available on the mixture itself. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent

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# **Section 11. Toxicological information**

vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

**Short term exposure** 

**Potential immediate** 

effects

: There are no data available on the mixture itself.

Potential delayed effects

Long term exposure

There are no data available on the mixture itself.

effects

Potential immediate : There are no data available on the mixture itself.

Potential delayed effects

: There are no data available on the mixture itself.

Potential chronic health effects

General : May cause damage to organs through prolonged or repeated exposure. Prolonged or

repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to

very low levels.

Carcinogenicity : Suspected of causing cancer. Risk of cancer depends on duration and level of

exposure.

**Mutagenicity**: No known significant effects or critical hazards.

**Reproductive toxicity**: Suspected of damaging fertility or the unborn child.

### **Numerical measures of toxicity**

### **Acute toxicity estimates**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
AMERLOCK 2 CURE	5002.8	2698.7	30864.8	25.4	2.5
barium sulfate	N/A	2500	N/A	N/A	N/A
xylene	4300	1700	N/A	11	1.5
4-nonylphenol, branched	1300	2140	N/A	N/A	N/A
m-phenylenebis(methylamine)	930	2500	4500	N/A	N/A
4-tert-butylphenol	2950	2290	N/A	N/A	N/A
benzyl alcohol	1230	2000	N/A	N/A	1.5
Poly[oxy(methyl-1,2-ethanediyl)], α-	2885	2980	N/A	N/A	N/A
(2-aminomethylethyl)-ω-(2-aminomethylethoxy)-	2500	47000	NI/A	47.0	4.5
ethylbenzene	3500	17800	N/A	17.8	1.5
Phenol, 2-nonyl-, branched	500	N/A	N/A	N/A	N/A

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# Section 12. Ecological information

### **Toxicity**

Product/ingredient name	Result	Species	Exposure
4-nonylphenol, branched Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine Poly[oxy(methyl-1,2-ethanediyl)], α- (2-aminomethylethyl)-ω-(2-aminomethylethoxy)-	Acute LC50 0.221 mg/l	Fish	96 hours
	EC10 1.78 mg/l	Algae	72 hours
	EC50 15 mg/l	Algae	72 hours
ethylbenzene	Acute LC50 150 to 200 mg/l Fresh water Acute LC50 0.017 mg/l	Fish	96 hours
Phenol, 2-nonyl-, branched		Fish - Pleuronectes americanus	96 hours

### Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene Fatty acids, C18-unsatd.,	-	-	Readily Not readily
dimers, oligomeric reaction products with tall-oil fatty acids and			
triethylenetetramine benzyl alcohol	-	-	Readily
Poly[oxy(methyl-1,2-ethanediyl) α- (2-aminomethylethyl)-ω-(2-aminomethylethoxy		-	Not readily
ethylbenzene	-	-	Readily

### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
xylene	3.16	7.4 to 18.5	low
4-nonylphenol, branched	-	251.19	low
m-phenylenebis(methylamine)	0.18	2.69	low
4-tert-butylphenol	3.31	67.61	low
benzyl alcohol	1.1	-	low
ethylbenzene	3.15	79.43	low

### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

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# Section 13. Disposal considerations

### **Disposal methods**

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

# 14. Transport information

	DOT	IMDG	IATA
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class (es)	3	3	3
Packing group	III	III	III
Environmental hazards	No.		Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	(4-nonylphenol, branched)	Not applicable.
Product RQ (lbs)	898.46	Not applicable.	Not applicable.
RQ substances	(xylene, ethylbenzene)	Not applicable.	Not applicable.

#### **Additional information**

**DOT** 

: Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

**IMDG** 

: The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.

**IATA** 

: The environmentally hazardous substance mark may appear if required by other transportation

regulations.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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# 14. Transport information

Transport in bulk according : Not applicable.

to IMO instruments

# Section 15. Regulatory information

### **United States**

United States inventory (TSCA 8b): All components are active or exempted.

United States - TSCA 12(b) - Chemical export notification:

4-nonylphenol, branched One time notification

United States - TSCA 5(a)2 - Final significant new use rules:

4-nonylphenol, branched Listed 76 FR 59186, Oct

1, 2014

Phenol, 2-nonyl-, branched Listed 78 FR 59186, Oct

1, 2014

**SARA 302/304** 

SARA 304 RQ : Not applicable.

**Composition/information on ingredients** 

No products were found.

**SARA 311/312** 

Classification : FLAMMABLE LIQUIDS - Category 3

ACUTE TOXICITY (inhalation) - Category 4

SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2

TOXIC TO REPRODUCTION - Category 2

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

HNOC - Corrosive to digestive tract

**HNOC** - Defatting irritant

### **Composition/information on ingredients**

Name	%	Classification
Talc , not containing asbestiform fibres	≥20 - ≤50	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
xylene	≥5.0 - ≤11	FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4
4-nonylphenol, branched	≥5.0 - ≤8.8	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 ASPIRATION HAZARD - Category 1 ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1 TOXIC TO REPRODUCTION - Category 2 HNOC - Corrosive to digestive tract

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Date of issue 20 November 2020 Version 31.01

Product code 00333621

**Product name AMERLOCK 2 CURE** 

# Section 15. Regulatory information

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	≥5.0 - ≤10	SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1A
m-phenylenebis(methylamine)	≥1.0 - ≤4.1	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION - Category 1B SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1B
4-tert-butylphenol	≥1.0 - ≤4.1	SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 TOXIC TO REPRODUCTION - Category 2
benzyl alcohol	≥1.0 - ≤3.8	ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 EYE IRRITATION - Category 2A
$\begin{array}{l} Poly[oxy(methyl-1,2\text{-}ethanediyl)],\\ \alpha\text{-}\\ \text{(2-aminomethylethyl)-}\omega\text{-}(2\text{-}aminomethylethoxy)\text{-} \end{array}$	≥0.10 - ≤2.9	SKIN CORROSION - Category 1C SERIOUS EYE DAMAGE - Category 1
ethylbenzene	≤2.0	FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1 HNOC - Defatting irritant
Phenol, 2-nonyl-, branched	<1.0	ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1 TOXIC TO REPRODUCTION - Category 2 HNOC - Corrosive to digestive tract

### **SARA 313**

	<u>Chemical name</u>	<u>CAS number</u>	<u>Concentration</u>
Supplier notification	: xylene	1330-20-7	7 - 13
	4-nonylphenol, branched	84852-15-3	5 - 10
	ethylbenzene	100-41-4	1 - 5

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

### California Prop. 65

★ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

United States Page: 17/18

Product code 00333621

Date of issue 20 November 2020 Version 31.01

**Product name AMERLOCK 2 CURE** 

### Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health: 3 \* Flammability: 3 Physical hazards: 0

(\*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on MSDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

**National Fire Protection Association (U.S.A.)** 

Health: 3 Flammability: 3 Instability: 0

Date of previous issue : 10/28/2020

Organization that prepared

the MSDS

: EHS

**Key to abbreviations** : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available SGG = Segregation Group UN = United Nations

▼ Indicates information that has changed from previously issued version.

#### **Disclaimer**

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.

United States Page: 18/18

# SAFETY DATA SHEET



Date of issue/Date of revision 12 June 2020

**Version 14** 

## **Section 1. Identification**

Product name : AMERLOCK 2/400 RESIN BLACK

Product code : 00288943

Other means of : Not available.

identification Product type

: Liquid.

### Relevant identified uses of the substance or mixture and uses advised against

Product use : Professional applications, Used by spraying.

Use of the substance/

mixture

: Coating.

Uses advised against : Not applicable.

Manufacturer : PPG Industries, Inc.

One PPG Place
Pittsburgh, PA 15272
412) 434-4515 (U.S.)

**Emergency telephone** 

number

: (412) 434-4515 (U.S.) (514) 645-1320 (Canada)

SETIQ Interior de la República: 800-00-214-00 (México) SETIQ Ciudad de México: (55) 5559-1588 (México)

**Technical Phone Number**: 888-977-4762

## Section 2. Hazards identification

**OSHA/HCS** status

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

: FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4

SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3

Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 32.6%

(Dermal), 94.5% (Inhalation)

**GHS label elements** 

United States Page: 1/15

### Product name AMERLOCK 2/400 RESIN BLACK

### Section 2. Hazards identification

**Hazard pictograms** 







Signal word

: Warning

**Hazard statements** 

: Mammable liquid and vapor.

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

Harmful if inhaled.

May cause respiratory irritation. Suspected of causing cancer.

### **Precautionary statements**

**Prevention** 

: Øbtain special instructions before use. Wear protective gloves. Wear protective clothing. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid breathing vapor. Wash thoroughly after handling.

Response

Storage Disposal

: Store in a well-ventilated place. Keep container tightly closed. Keep cool.

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements

: Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated.

Hazards not otherwise classified

: Prolonged or repeated contact may dry skin and cause irritation.

# Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Product name : AMERLOCK 2/400 RESIN BLACK

Ingredient name	%	CAS number
Epoxy resin (MW ≤ 700)	≥50 - ≤75	25068-38-6
Talc , not containing asbestiform fibres	≥20 - ≤50	14807-96-6
Solvent naphtha (petroleum), light aromatic	≥1.0 - ≤4.7	64742-95-6
1,2,4-trimethylbenzene	≥1.0 - ≤4.3	95-63-6
carbon black, respirable powder	≥0.10 - ≤2.1	1333-86-4
ethylbenzene	<1.0	100-41-4

United States Page: 2/15

### Product name AMERLOCK 2/400 RESIN BLACK

# Section 3. Composition/information on ingredients

SUB codes represent substances without registered CAS Numbers.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

### **Description of necessary first aid measures**

**Eye contact**: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids

apart for at least 10 minutes and seek immediate medical advice.

Inhalation : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is

irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained

personnel.

Skin contact : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water

or use recognized skin cleanser. Do NOT use solvents or thinners.

**Ingestion**: If swallowed, seek medical advice immediately and show this container or label. Keep

person warm and at rest. Do NOT induce vomiting.

### Most important symptoms/effects, acute and delayed

### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

**Inhalation** : Harmful if inhaled. May cause respiratory irritation.

**Skin contact**: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.

**Ingestion**: No known significant effects or critical hazards.

Over-exposure signs/symptoms

**Eye contact**: Adverse symptoms may include the following:

pain or irritation

watering redness

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

**Skin contact**: Adverse symptoms may include the following:

irritation redness dryness cracking

**Ingestion** : No specific data.

### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments**: No specific treatment.

United States Page: 3/15

### Product name AMERLOCK 2/400 RESIN BLACK

### Section 4. First aid measures

**Protection of first-aiders** 

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

### **Extinguishing media**

Suitable extinguishing

media

Unsuitable extinguishing media

: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

: Do not use water jet.

Specific hazards arising from the chemical

: Fammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

Hazardous thermal decomposition products

: Decomposition products may include the following materials: carbon oxides

halogenated compounds metal oxide/oxides

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

# Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

United States Page: 4/15

Product name AMERLOCK 2/400 RESIN BLACK

### Section 6. Accidental release measures

**Small spill** 

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

### **Precautions for safe handling**

**Protective measures** 

: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Special precautions** 

: Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, : including any incompatibilities

Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

United States Page: 5/15

Product name AMERLOCK 2/400 RESIN BLACK

## Section 8. Exposure controls/personal protection

### **Control parameters**

### Occupational exposure limits

Ingredient name	Exposure limits
Epoxy resin (MW ≤ 700)	None.
Talc , not containing asbestiform fibres	ACGIH TLV (United States, 3/2019). TWA: 2 mg/m³ 8 hours. Form: Respirable
	OSHA PEL Z3 (United States). TWA: 2 mg/m³
Solvent naphtha (petroleum), light aromatic	None.
1,2,4-trimethylbenzene	ACGIH TLV (United States, 3/2019). TWA: 123 mg/m³ 8 hours.
carban black recapitable nowder	TWA: 25 ppm 8 hours.
carbon black, respirable powder	ACGIH TLV (United States, 3/2019). TWA: 3 mg/m³ 8 hours. Form: Inhalable fraction
	OSHA PEL (United States, 5/2018).
	TWA: 3.5 mg/m <sup>3</sup> 8 hours.
ethylbenzene	ACGIH TLV (United States, 3/2019).
	TWA: 20 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 435 mg/m³ 8 hours.
	TWA: 100 ppm 8 hours.

#### Key to abbreviations

Α	= Acceptable Maximum Peak	S	<ul> <li>Potential skin absorption</li> </ul>
ACGIH	= American Conference of Governmental Industrial Hygienists.	SR	<ul> <li>Respiratory sensitization</li> </ul>
С	= Ceiling Limit	SS	<ul> <li>Skin sensitization</li> </ul>
F	= Fume	STEL	= Short term Exposure limit values

= Internal Permissible Exposure Limit TD = Total dust

= Occupational Safety and Health Administration. **OSHA** TLV = Threshold Limit Value TWA R = Respirable = Time Weighted Average

= OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances

### Consult local authorities for acceptable exposure limits.

# procedures

**Recommended monitoring**: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

### Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

### **Environmental exposure** controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### **Individual protection measures**

United States	Page: 6/15
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Product name AMERLOCK 2/400 RESIN BLACK

## Section 8. Exposure controls/personal protection

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before

eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing.

Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety

showers are close to the workstation location.

**Eye/face protection** 

Skin protection

: Chemical splash goggles.

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different glove manufacturers. In the case of mixtures, consisting of several substances, the

protection time of the gloves cannot be accurately estimated.

Gloves : butyl rubber

**Body protection**: Personal protective equipment for the body should be selected based on the task being

performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection from static discharges, clothing

should include anti-static overalls, boots and gloves.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected

based on the task being performed and the risks involved and should be approved by a

specialist before handling this product.

Respiratory protection : Respirator selection must be based on known or anticipated exposure levels, the

hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying

with an approved standard if a risk assessment indicates this is necessary.

# Section 9. Physical and chemical properties

: Not available.

**Appearance** 

**Melting point** 

Physical state : Liquid.
Color : Black.

Odor : Characteristic.
Odor threshold : Not available.
pH : Not available.

**Boiling point** : >37.78°C (>100°F)

Flash point : Closed cup: 56°C (132.8°F)

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Flammability (solid, gas) : Not available.

Lower and upper explosive : Not available.

(flammable) limits

Evaporation rate : Not available.

Vapor pressure : Not available.

United States Page: 7/15

### Product name AMERLOCK 2/400 RESIN BLACK

# Section 9. Physical and chemical properties

Vapor density : Not available.

Relative density : 1.37

Density ( lbs / gal ) : 11.43

**Solubility** : Insoluble in the following materials: cold water.

Partition coefficient: n-

octanol/water

: Not available.

Viscosity : Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt)

**Volatility** : 11% (v/v), 7.18% (w/w)

% **Solid.** (w/w) : 92.82

# Section 10. Stability and reactivity

**Reactivity**: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability**: The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid** : When exposed to high temperatures may produce hazardous decomposition products.

Refer to protective measures listed in sections 7 and 8.

**Incompatible materials** : Keep away from the following materials to prevent strong exothermic reactions:

oxidizing agents, strong alkalis, strong acids.

**Hazardous decomposition** 

products

: Decomposition products may include the following materials: carbon monoxide, carbon

dioxide, smoke, oxides of nitrogen.

## Section 11. Toxicological information

### Information on toxicological effects

### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Epoxy resin (MW ≤ 700)	LD50 Dermal	Rabbit	>2 g/kg	-
	LD50 Oral	Rat	>2 g/kg	-
Solvent naphtha (petroleum), light aromatic	LD50 Dermal	Rabbit	3.48 g/kg	-
	LD50 Oral	Rat	8400 mg/kg	-
1,2,4-trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m <sup>3</sup>	4 hours
-	LD50 Oral	Rat	5 g/kg	-
carbon black, respirable	LD50 Dermal	Rabbit	>3 g/kg	-
powder	I DEC Oval	Det	> 1 E 100 mag/l/gr	
4. 4	LD50 Oral		>15400 mg/kg	4 1
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-

United States Page: 8/15

### Product name AMERLOCK 2/400 RESIN BLACK

# **Section 11. Toxicological information**

**Conclusion/Summary**: There are no data available on the mixture itself.

### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
Epoxy resin (MW ≤ 700)	Skin - Mild irritant	Rabbit	-	-	-
	Eyes - Mild irritant	Rabbit	-	-	-

**Conclusion/Summary** 

Skin: There are no data available on the mixture itself.Eyes: There are no data available on the mixture itself.Respiratory: There are no data available on the mixture itself.

### **Sensitization**

3	Route of exposure	Species	Result
Epoxy resin (MW ≤ 700)	skin	Mouse	Sensitizing

**Conclusion/Summary** 

Skin : There are no data available on the mixture itself.Respiratory : There are no data available on the mixture itself.

**Mutagenicity** 

**Conclusion/Summary**: There are no data available on the mixture itself.

Carcinogenicity

**Conclusion/Summary**: There are no data available on the mixture itself.

**Classification** 

Product/ingredient name	OSHA	IARC	NTP
carbon black, respirable powder	-	2B	-
ethylbenzene	-	2B	-

### Carcinogen Classification code:

IARC: 1, 2A, 2B, 3, 4

NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen

OSHA: +

Not listed/not regulated: -

### Reproductive toxicity

**Conclusion/Summary**: There are no data available on the mixture itself.

**Teratogenicity** 

**Conclusion/Summary**: There are no data available on the mixture itself.

Specific target organ toxicity (single exposure)

United States Page: 9/15

### Product name AMERLOCK 2/400 RESIN BLACK

# **Section 11. Toxicological information**

Name	Category	Route of exposure	Target organs
ralc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation
Solvent naphtha (petroleum), light aromatic	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
1,2,4-trimethylbenzene	Category 3	-	Respiratory tract irritation

### Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
<b>e</b> thylbenzene	Category 2	-	hearing organs

**Target organs** 

: Contains material which causes damage to the following organs: brain, central nervous

system (CNS).

Contains material which may cause damage to the following organs: blood, lungs,

cardiovascular system, upper respiratory tract, skin, eyes.

### **Aspiration hazard**

Name	Result
	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

### Information on the likely routes of exposure

### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

**Inhalation** : Harmful if inhaled. May cause respiratory irritation.

**Skin contact**: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.

**Ingestion**: No known significant effects or critical hazards.

### Over-exposure signs/symptoms

**Eye contact**: Adverse symptoms may include the following:

pain or irritation

watering redness

**Inhalation** : Adverse symptoms may include the following:

respiratory tract irritation

coughing

**Skin contact**: Adverse symptoms may include the following:

irritation redness dryness cracking

Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

United States Page: 10/15

### Product name AMERLOCK 2/400 RESIN BLACK

# Section 11. Toxicological information

### **Conclusion/Summary**

: There are no data available on the mixture itself. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

#### Short term exposure

**Potential immediate** 

effects

Potential delayed effects

Long term exposure

effects

**Potential immediate** 

: There are no data available on the mixture itself.

: There are no data available on the mixture itself.

: There are no data available on the mixture itself.

: There are no data available on the mixture itself.

### Potential chronic health effects

Potential delayed effects

General

: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity

: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity
Teratogenicity

**Fertility effects** 

No known significant effects or critical hazards.

**Numerical measures of toxicity** 

### **Acute toxicity estimates**

**Developmental effects** 

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)		Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
AMERLOCK 2/400 RESIN BLACK Epoxy resin (MW ≤ 700) Solvent naphtha (petroleum), light aromatic 1,2,4-trimethylbenzene carbon black, respirable powder ethylbenzene	4511.6	2886.9	N/A	52.1	4.3
	2500	2500	N/A	N/A	N/A
	8400	3480	N/A	N/A	N/A
	5000	N/A	N/A	18	1.5
	N/A	2500	N/A	N/A	N/A
	3500	17800	N/A	17.8	1.5

United States Page: 11/15

### Product name AMERLOCK 2/400 RESIN BLACK

# **Section 12. Ecological information**

### **Toxicity**

Product/ingredient name	Result	Species	Exposure
	Acute LC50 1.8 mg/l Chronic NOEC 0.3 mg/l	Daphnia Daphnia	48 hours 21 days
Solvent naphtha (petroleum), light aromatic	Acute LC50 8.2 mg/l	Fish	96 hours
ethylbenzene	Acute LC50 150 to 200 mg/l Fresh water	Fish	96 hours

### Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
Epoxy resin (MW ≤ 700)	OECD 301F	5 % - 28 da	ys	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodegi	radability
Epoxy resin (MW ≤ 700) ethylbenzene	-		-		Not read Readily	dily

### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Epoxy resin (MW ≤ 700)	3	31	low
1,2,4-trimethylbenzene	3.63	120.23	low
ethylbenzene	3.15	79.43	low

### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

# Section 13. Disposal considerations

### **Disposal methods**

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

United States Page: 12/15

### Product name AMERLOCK 2/400 RESIN BLACK

# 14. Transport information

	DOT	IMDG	IATA
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class (es)	3	3	3
Packing group	III	III	III
Environmental hazards	No.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	(Epoxy resin (MW ≤ 700), Solvent naphtha (petroleum), light aromatic)	Not applicable.
Product RQ (lbs)	14078.4	Not applicable.	Not applicable.
RQ substances	(xylene)	Not applicable.	Not applicable.

#### **Additional information**

**DOT** : This product may be re-classified as "Combustible Liquid," unless transported by vessel or aircraft.

Non-bulk packages (less than or equal to 119 gal) of combustible liquids are not regulated as

hazardous materials in package sizes less than the product reportable quantity.

**IMDG** : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.

**IATA** : The environmentally hazardous substance mark may appear if required by other transportation

regulations.

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

Transport in bulk according : Not applicable.

to IMO instruments

# **Section 15. Regulatory information**

### **United States**

United States inventory (TSCA 8b): All components are active or exempted.

**SARA 302/304** 

SARA 304 RQ : Not applicable.

**Composition/information on ingredients** 

No products were found.

**SARA 311/312** 

United States Page: 13/15

### Product name AMERLOCK 2/400 RESIN BLACK

# **Section 15. Regulatory information**

Classification

: FLAMMABLE LIQUIDS - Category 3

ACUTE TOXICITY (inhalation) - Category 4

SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract

irritation) - Category 3 HNOC - Defatting irritant

### **Composition/information on ingredients**

Name	%	Classification
Epoxy resin (MW ≤ 700)	≥50 - ≤75	SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		SKIN SENSITIZATION - Category 1B
Talc , not containing asbestiform	≥20 - ≤50	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
fibres		(Respiratory tract irritation) - Category 3
Solvent naphtha (petroleum),	≥1.0 - ≤4.7	FLAMMABLE LIQUIDS - Category 3
light aromatic		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Narcotic effects) - Category 3
		ASPIRATION HAZARD - Category 1
		HNOC - Defatting irritant
1,2,4-trimethylbenzene	≥1.0 - ≤4.3	FLAMMABLE LIQUIDS - Category 3
		ACUTE TOXICITY (inhalation) - Category 4
		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
		HNOC - Defatting irritant
carbon black, respirable powder	≥0.10 - ≤2.1	COMBUSTIBLE DUSTS
		CARCINOGENICITY - Category 2
ethylbenzene	<1.0	FLAMMABLE LIQUIDS - Category 2
		ACUTE TOXICITY (inhalation) - Category 4
		CARCINOGENICITY - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 2
		ASPIRATION HAZARD - Category 1
		HNOC - Defatting irritant

### **SARA 313**

Chemical nameCAS numberConcentrationSupplier notification: 1.2.4-trimethylbenzene95-63-61 - 5

Supplier notification: 1,2,4-trimethylbenzene95-63-61 - 5ethylbenzene100-41-40.1 - 1

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

### California Prop. 65

United States Page: 14/15

Product code 00288943 Date of issue 12 June 2020 Version 14

#### Product name AMERLOCK 2/400 RESIN BLACK

### Section 15. Regulatory information

MARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

#### Section 16. Other information

**Hazardous Material Information System (U.S.A.)** 

Health: 2 \* Flammability: 2 Physical hazards: 0

(\*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on MSDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)

Health: 2 Flammability: 2 Instability: 0

Date of previous issue : 2/7/2020
Organization that prepared : EHS

the MSDS

Key to abbreviations : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available SGG = Segregation Group UN = United Nations

Indicates information that has changed from previously issued version.

#### **Disclaimer**

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.

United States Page: 15/15



11

OVS Ped Bridge Topcoat PSX 800 Product Data and MSDS Sheets

#### DESCRIPTION

Two-component, engineered siloxane coating

#### PRINCIPAL CHARACTERISTICS

- · Unique, high gloss, engineered siloxane
- Virtually HAPs free, low VOC
- · High durability in challenging environments
- · Tough and abrasion resistant
- · Resists dirt pickup, easily cleaned
- Can be applied directly to zinc primers as a 2-coat system

#### **COLOR AND GLOSS LEVEL**

- Standard Color Offering, Custom Colors
- · High gloss

#### BASIC DATA AT 68°F (20°C)

Data for product		
Number of components	Two	
Volume solids	97 ± 3%	
VOC (Supplied)	max. 75.0 g/l (approx. 0.6 lb/US gal)	
Recommended dry film thickness	3.0 - 7.0 mils (75 - 175 µm) depending on system	
Theoretical spreading rate	311 ft²/US gal for 5.0 mils (7.6 m²/l for 125 μm)	
Shelf life	Base: at least 24 months when stored cool and dry Hardener: at least 24 months when stored cool and dry	

#### Notes:

- \* The mixed and applied coating cure reaction will produce VOC of mixed alcohols. For 100 g/L VOC requirements, a VOC-exempt thinner such as 97-739 may be used as needed.
- See ADDITIONAL DATA Overcoating intervals
- See ADDITIONAL DATA Curing time

#### RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Coating performance is proportional to the degree of surface preparation

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#### Steel

- Abrasive Blast to SSPC SP-6 or higher with a 1.0-3.0 mil surface profile
- Keep moisture, oil, grease and other organic matter off surface before coating
- Apply this product as soon as possible to avoid rusting of blasted surfaces
- · For touch up and repair, power tool cleaning in accordance with SSPC SP-11 is acceptable
- Use a suitable primer for corrosive environments

#### Concrete

See specific primer

#### Aged coatings

- Contact your PPG representative. A test patch of the product over in-tact clean coating and observation for film defects and adhesion over a period of time may be required, dependent upon the type of coating
- This product is compatible over Amercoat 450 Series polyurethane.

#### Atmospheric exposure conditions

- Ambient temperature during application and curing should be between 40 °F (4°C) and 120 °F (49 °C).
- Material temperature should be between 50 °F (10 °C) and 90 °F (32 °C)
- Relative humidity should be above 40%

#### Substrate temperature

- Surface temperature during application should be between 40°F (4°C) and 120°F (49°C).
- Surface temperature during application should be at least 5°F (3°C) above dew point

#### SYSTEM SPECIFICATION

 Primers: DIMETCOTE 9-series, DIMETCOTE 21-5, DIMETCOTE 302H, AMERCOAT 68HS, AMERLOCK 2/400, AMERCOAT 370, AMERCOAT 385, AMERCOAT 240, AMERCOAT 235

Note: Other primers would be acceptable. Please contact your PPG PMC representative for confirmation of alternate primers.

#### INSTRUCTIONS FOR USE

#### Mixing ratio by volume: base to hardener (4:1)

 Only mix full kits. Pre-mix base component with a pneumatic air mixing at moderate speeds to homogenize the container. Pour in the hardener component and power agitate until thoroughly mixed

#### Pot life

Ref. P456

4 hours at 70°F (21°C)

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#### Application

- · Area should be sheltered from airborne particulates and pollutants
- · Ensure good ventilation during application and curing
- · Provide shelter to prevent wind from affecting spray patterns

#### Air spray

- · Separate air and fluid regulators are essential
- Ensure there is a moisture and oil trap in the main air line
- An agitated pressure pot is recommended

#### Recommended thinner

THINNER 60-12 (AMERCOAT 911), THINNER 21-06 (AMERCOAT 65) (xylene)), THINNER 21-25 (AMERCOAT 101) (recommended for > 90°F (32°C))

#### Volume of thinner

0-10%

#### Nozzle orifice

Approx. 0.070 in (1.8 mm)

#### Airless spray

30:1 pump or larger

#### Recommended thinner

THINNER 60-12 (AMERCOAT 911), THINNER 21-06 (AMERCOAT 65) (xylene)), THINNER 21-25 (AMERCOAT 101) (recommended for > 90°F (32°C))

#### Nozzle orifice

0.015 - 0.017 in (approx. 0.38 - 0.43 mm)

#### Brush/roller

- Use a high quality natural bristle brush and/or solvent resistant, 1/4" or 3/8" nap roller. Ensure brush/roller is well loaded to
  avoid air entrainment. Multiple coats may be necessary to achieve adequate film-build
- AMERCOAT 851 flow control additive can be used to for enhanced flow and leveling with brush and roll application
- Be aware that multiple coats may be required to achieve uniform and sufficient film thickness to provide proper hiding performance when applying by brush or roller

#### Recommended thinner

THINNER 60-12 (AMERCOAT 911), THINNER 21-06 (AMERCOAT 65 (xylene)), or 97-739 (where exempt thinner is required for VOC regulations)

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#### Cleaning solvent

AMERCOAT 12 Cleaner or AMERCOAT 911 thinner

#### ADDITIONAL DATA

Overcoating interval for DFT up to 4.0 mils (100 µm)						
Overcoating with	Interval	32°F (0°C)	50°F (10°C)	70°F (21°C)	90°F (32°C)	
itself	Minimum Maximum	20 hours Unlimited	9 hours Unlimited	4.5 hours Unlimited	3 hours Unlimited	

Note: Surface must be power washed to remove contaminants. Surface must be clean and dry. When re-coating within 72 hours, solvent wipe the surface with any of the PSX 800 thinners prior to application of the second coat.

Curing time using standard hardener for up to 4 mils dft and 50% relative humidity					
Substrate temperature	Dry to touch	Dry to handle			
40°F (4°C)	14 hours	36 hours			
50°F (10°C)	8 hours	13 hours			
70°F (21°C)	3.5 hours	9 hours			
90°F (32°C)	2 hours	5 hours			

Pot life (at application viscosity)				
Mixed product temperature	Pot life			
50°F (10°C)	6.5 hours			
70°F (21°C)	4 hours			
90°F (32°C)	1.5 hours			

#### **Product Qualifications**

· SSPC Paint 36 Level 3 Performance

#### SAFETY PRECAUTIONS

- For paint and recommended thinners see INFORMATION SHEETS 1430, 1431 and relevant Material Safety Data Sheets
- This is a solvent-borne paint and care should be taken to avoid inhalation of spray mist or vapor, as well as contact between the wet paint and exposed skin or eyes

#### WORLDWIDE AVAILABILITY

It is always the aim of PPG Protective and Marine Coatings to supply the same product on a worldwide basis. However, slight modification of the product is sometimes necessary to comply with local or national rules/circumstances. Under these circumstances an alternative product data sheet is used.

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#### REFERENCES

•	CONVERSION TABLES	INFORMATION SHEET	1410
•	EXPLANATION TO PRODUCT DATA SHEETS	INFORMATION SHEET	1411
•	SAFETY INDICATIONS	INFORMATION SHEET	1430
•	SAFETY IN CONFINED SPACES AND HEALTH SAFETY, EXPLOSION HAZARD -	INFORMATION SHEET	1431

#### WARRANTY

PPG warrants (i) its title to the product, (ii) that the quality of the product conforms to PPG's specifications for such product in effect at the time of manufacture and (iii) that the product that product at the time of manufacture and (iii) that the product that product the product that product the time of manufacture and (iii) that the product that product the time of manufacture and (iii) that the product that product the product that product the time of manufacture and (iii) that the product that product the product that product the time of manufacture and (iii) that the product that product the product that product the product that product the product that product the product to the Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life of the product, or one year from the date of the delivery of the product to the Buyer, whichever is carrier. Buyer's talkers to notify PPG of such non-conformance as required herein shall be a Buyer from recovery under this warranty.

#### LIMITATIONS OF LIABILITY

IN NO EVENT WILL PPG BE LIABLE UNDER ANY THEORY OF RECOVERY (WHETHER BASED ON NEGLIGENCE OF ANY DIND, STRICT LIABILITY OR TORT) FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES IN ANY WAY RELATED TO, ARISING FROM, OR RESULTING FROM ANY USE MADE OF THE PRODUCT. The information in this shoot is intended for guidance only and is based upon laboratory tests that PPG believes to be reliable. PPG may modify the information contained herein as a result of practical experience and certification product and related information is development. All recommendations or suggestions relating to the use of the PPG product, whether in technical documentation, or in response to a specific inquiry, or otherwise, are based on data, which to the best of PPG's knowledge, in reliable. The product and related information is designed for users having the requisite knowledge and industrial skills in the industry and it is the end-user's responsibility to determine the sustability of the product to the product are many factors affecting the use and application of the product. Therefore, PPG does not accept any liability arising from any loss, injury or damage resulting from such use or the contents of this information (unless there are written agreements stating otherwise). Variations in the application environment, changes in procedures of use, or extrapolation of data may cause unsubstactory results. This shoot supersodes all provious versions and it is the Buyer's responsibility to ensure that this information is current prior to using the product. Current sheets for all PPG Protective & Marine Coatings Products are maintained at wew appgrace.com. The English and of this sheet shall prevail over any translation thereof.

Packaging: Available in 1-gallon and 5-gallon kits

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# SAFETY DATA SHEET



Date of issue/Date of revision 13 June 2020

**Version 18** 

### **Section 1. Identification**

Product name : PSX 800 NEUTRAL TINT RESIN

Product code : 00353605

Other means of : Not available.

identification

Product type : Liquid.

Relevant identified uses of the substance or mixture and uses advised against

Product use : Professional applications, Used by spraying.

Use of the substance/

mixture

: Coating.

Uses advised against : Not applicable.

Manufacturer : PPG Industries, Inc.

One PPG Place Pittsburgh, PA 15272 : (412) 434-4515 (U.S.)

**Emergency telephone** 

number

(412) 434-4515 (U.S.) (514) 645-1320 (Canada)

SETIQ Interior de la República: 800-00-214-00 (México) SETIQ Ciudad de México: (55) 5559-1588 (México)

**Technical Phone Number**: 888-977-4762

### Section 2. Hazards identification

**OSHA/HCS** status

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

: EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1

Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 58.1%

(Oral), 63.1% (Dermal), 91.8% (Inhalation)

**GHS label elements** 

Hazard pictograms :



Signal word : Warning

Hazard statements : May cause an allergic skin reaction.

Causes serious eye irritation.

**Precautionary statements** 

United States Page: 1/13

#### **Product name PSX 800 NEUTRAL TINT RESIN**

#### Section 2. Hazards identification

Prevention : Wear eye or face protection. Avoid breathing vapor.

: Not applicable.

Response : ₩ash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or

attention.

Disposal : Dispose of contents and container in accordance with all local, regional, national and

international regulations.

Supplemental label

elements

**Storage** 

: Sanding and grinding dusts may be harmful if inhaled. Trimethoxysilanes are capable of forming methanol if hydrolyzed or ingested. If swallowed, methanol may be harmful or fatal or cause blindness. Emits toxic fumes when heated.

Hazards not otherwise : None known.

classified

# Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Product name : PSX 800 NEUTRAL TINT RESIN

Ingredient name	%	CAS number
₹,4'-Isopropylidenedicyclohexanol, oligomeric reaction products with	≥20 - ≤50	30583-72-3
1-chloro-2,3-epoxypropane		
barium sulfate	≥20 - ≤46	7727-43-7
9-Octadecenoic acid, 12-(2-oxiranylmethoxy)-, 1,2,3-propanetriyl ester,	≥5.0 - ≤8.0	74398-71-3
homopolymer		
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	≥1.0 - ≤5.0	41556-26-7
Wollastonite	≥1.0 - ≤5.0	13983-17-0
Poly(oxy-1,2-ethanediyl), $\alpha$ -(nonylphenyl)- $\omega$ -hydroxy-, branched, phosphates	≤1.9	68412-53-3
Alpha, Alpha"-(1,3-Xylenediyl)Bis(12-Hydroxy-Octadecanamide)	≥1.0 - ≤5.0	Not available.

SUB codes represent substances without registered CAS Numbers.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

#### **Description of necessary first aid measures**

Inhalation

**Eye contact**: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids

apart for at least 10 minutes and seek immediate medical advice.

: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

United States Page: 2/13

#### **Product name PSX 800 NEUTRAL TINT RESIN**

### Section 4. First aid measures

Skin contact : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water

or use recognized skin cleanser. Do NOT use solvents or thinners.

Ingestion : If swallowed, seek medical advice immediately and show this container or label. Keep

person warm and at rest. Do NOT induce vomiting.

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact**: May cause an allergic skin reaction.

**Ingestion** : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

**Eye contact**: Adverse symptoms may include the following:

pain or irritation watering

redness

Inhalation : No specific data.

**Skin contact**: Adverse symptoms may include the following:

irritation redness

Ingestion : No specific data.

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments**: No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may

be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash

contaminated clothing thoroughly with water before removing it, or wear gloves.

#### See toxicological information (Section 11)

### Section 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing** 

media

: None known.

Specific hazards arising from the chemical

: In a fire or if heated, a pressure increase will occur and the container may burst. Vapors may accumulate in low or confined areas or travel a considerable distance to a source

of ignition and flash back.

United States Page: 3/13

#### **Product name PSX 800 NEUTRAL TINT RESIN**

### Section 5. Fire-fighting measures

Hazardous thermal decomposition products

 Decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides phosphorus oxides

halogenated compounds metal oxide/oxides

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### Methods and materials for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

United States Page: 4/13

Product name PSX 800 NEUTRAL TINT RESIN

### Section 7. Handling and storage

#### Precautions for safe handling

**Protective measures** 

: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

#### **Special precautions**

: Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.

# Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

# Conditions for safe storage, : including any incompatibilities

Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

### Section 8. Exposure controls/personal protection

#### **Control parameters**

#### Occupational exposure limits

Ingredient name	Exposure limits
₮,4'-Isopropylidenedicyclohexanol, oligomeric reaction products with	None.
1-chloro-2,3-epoxypropane	
barium sulfate	ACGIH TLV (United States, 3/2019).
	TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Inhalable
	fraction
	OSHA PEL (United States, 5/2018).
	TWA: 5 mg/m³ 8 hours. Form: Respirable
	fraction
	TWA: 15 mg/m³ 8 hours. Form: Total dust
9-Octadecenoic acid, 12-(2-oxiranylmethoxy)-, 1,2,3-propanetriyl ester,	None.
homopolymer	i terre.
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	None.
Wollastonite	ACGIH TLV (United States, 3/2019).
VVOIIdStortite	TWA: 1 mg/m³ 8 hours. Form: Inhalable
	fraction
Deby(ann 4.0 ath an a first) ar (a ann dah ann d) ar haidhean a haidh ad	
Poly(oxy-1,2-ethanediyl), α-(nonylphenyl)-ω-hydroxy-, branched, phosphates	None.
Alpha, Alpha"-(1,3-Xylenediyl)Bis(12-Hydroxy-Octadecanamide)	None.

#### Key to abbreviations

	<b>United States</b>	Page: 5/13
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#### **Product name PSX 800 NEUTRAL TINT RESIN**

### Section 8. Exposure controls/personal protection

A = Acceptable Maximum Peak S = Potential skin absorption ACGIH = American Conference of Governmental Industrial Hygienists. SR = Respiratory sensitization

C = Ceiling Limit STEL = Short term Exposure limit values

IPEL= Internal Permissible Exposure LimitTD= Total dustOSHA= Occupational Safety and Health Administration.TLV= Threshold Limit ValueR= RespirableTWA= Time Weighted Average

Z = OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances

#### Consult local authorities for acceptable exposure limits.

# Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

# Appropriate engineering controls

Environmental exposure controls

- : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### **Individual protection measures**

#### Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

# Eye/face protection Skin protection Hand protection

Chemical splash goggles.

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

# Gloves Body protection

: butyl rubber

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

#### Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

#### Respiratory protection

: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

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**Product name PSX 800 NEUTRAL TINT RESIN** 

### Section 9. Physical and chemical properties

**Appearance** 

Physical state : Liquid.

Color : White to yellowish.

Odor : Characteristic.

Odor threshold : Not available.

pH : Not available.

Melting point : Not available.

**Boiling point** : >37.78°C (>100°F)

Flash point : Closed cup: 97.22°C (207°F)

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Flammability (solid, gas) : Not available.

Lower and upper explosive : Not available.

(flammable) limits

Evaporation rate: Not available.Vapor pressure: Not available.Vapor density: Not available.

Relative density : 1.41

Density ( lbs / gal ) : 11.77

**Solubility** : Insoluble in the following materials: cold water.

Partition coefficient: n-

octanol/water

: Not available.

Viscosity : Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt)

**Volatility** : 0% (v/v), 0.218% (w/w)

**% Solid. (w/w)** : 99.782

# Section 10. Stability and reactivity

**Reactivity**: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability**: The product is stable.

Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : When exposed to high temperatures may produce hazardous decomposition products.

Refer to protective measures listed in sections 7 and 8.

**Incompatible materials**: Keep away from the following materials to prevent strong exothermic reactions:

oxidizing agents, strong alkalis, strong acids.

Hazardous decomposition

products

: Decomposition products may include the following materials: carbon monoxide, carbon

dioxide, smoke, oxides of nitrogen.

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**Product name PSX 800 NEUTRAL TINT RESIN** 

### **Section 11. Toxicological information**

#### Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
<mark></mark>	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
9-Octadecenoic acid, 12- (2-oxiranylmethoxy)-, 1,2,3-propanetriyl ester, homopolymer	LD50 Dermal	Rabbit	>5 g/kg	-
bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate	LD50 Oral LD50 Oral	Rat Rat	>5 g/kg 3.125 g/kg	-

**Conclusion/Summary** 

: There are no data available on the mixture itself.

Irritation/Corrosion

**Conclusion/Summary** 

Skin: There are no data available on the mixture itself.Eyes: There are no data available on the mixture itself.Respiratory: There are no data available on the mixture itself.

**Sensitization** 

**Conclusion/Summary** 

Skin: There are no data available on the mixture itself.Respiratory: There are no data available on the mixture itself.

**Mutagenicity** 

**Conclusion/Summary**: There are no data available on the mixture itself.

**Carcinogenicity** 

**Conclusion/Summary**: There are no data available on the mixture itself.

Classification

Product/ingredient name	OSHA	IARC	NTP
₩ollastonite	-	3	-

Carcinogen Classification code:

IARC: 1, 2A, 2B, 3, 4

NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen

OSHA: -

Not listed/not regulated: -

Reproductive toxicity

**Conclusion/Summary**: There are no data available on the mixture itself.

**Teratogenicity** 

**Conclusion/Summary**: There are no data available on the mixture itself.

Specific target organ toxicity (single exposure)

United States Page: 8/13

#### **Product name PSX 800 NEUTRAL TINT RESIN**

### **Section 11. Toxicological information**

Name		Route of exposure	Target organs
Mpha, Alpha"-(1,3-Xylenediyl)Bis(12-Hydroxy-Octadecanamide)	Category 3		Respiratory tract irritation

#### Specific target organ toxicity (repeated exposure)

Not available.

<u>Target organs</u>: Contains material which causes damage to the following organs: upper respiratory tract,

skin, eyes.

Contains material which may cause damage to the following organs: lungs.

#### **Aspiration hazard**

Not available.

#### Information on the likely routes of exposure

#### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact** : May cause an allergic skin reaction.

**Ingestion**: No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

**Eye contact**: Adverse symptoms may include the following:

pain or irritation watering

watering redness

Inhalation : No specific data.

**Skin contact**: Adverse symptoms may include the following:

irritation redness

**Ingestion**: No specific data.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

**Conclusion/Summary**: There are no data available on the mixture itself. Trimethoxysilanes are capable of

forming methanol if hydrolyzed or ingested. If swallowed, methanol may be harmful or fatal or cause blindness. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal

routes of exposure and eye contact.

**Short term exposure** 

Potential immediate : There are no data available on the mixture itself.

effects

Potential delayed effects : There are no data available on the mixture itself.

Long term exposure

Potential immediate : There are no data available on the mixture itself.

effects

Potential delayed effects : There are no data available on the mixture itself.

Potential chronic health effects

United States Page: 9/13

#### **Product name PSX 800 NEUTRAL TINT RESIN**

### **Section 11. Toxicological information**

General : Once sensitized, a severe allergic reaction may occur when subsequently exposed to

very low levels.

Carcinogenicity: No known significant effects or critical hazards.Mutagenicity: No known significant effects or critical hazards.Teratogenicity: No known significant effects or critical hazards.Developmental effects: No known significant effects or critical hazards.Fertility effects: No known significant effects or critical hazards.

**Numerical measures of toxicity** 

#### **Acute toxicity estimates**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
PSX 800 NEUTRAL TINT RESIN barium sulfate bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	50190.7	3890.6	N/A	N/A	N/A
	N/A	2500	N/A	N/A	N/A
	3125	N/A	N/A	N/A	N/A

### **Section 12. Ecological information**

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
4,4'- Isopropylidenedicyclohexanol, oligomeric reaction products with 1-chloro- 2,3-epoxypropane	LC50 11.5 mg/l	Fish	96 hours

#### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

Not available.

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

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**Product name PSX 800 NEUTRAL TINT RESIN** 

### Section 13. Disposal considerations

**Disposal methods** 

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

### 14. Transport information

	DOT	IMDG	IATA
UN number	Not regulated.	UN3082	UN3082
UN proper shipping name	-	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate, trizinc bis (orthophosphate))	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate, trizinc bis(orthophosphate))
Transport hazard class (es)	-	9	9
Packing group	-	III	III
Environmental hazards Marine pollutant substances	No. Not applicable.	Yes. (bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, trizinc bis (orthophosphate))	Yes. Not applicable.

#### Additional information

DOT : None identified.

**IMDG** : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg,

provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

**IATA** : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg.

provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

**United States** Page: 11/13

#### **Product name PSX 800 NEUTRAL TINT RESIN**

### 14. Transport information

Transport in bulk according : Not applicable.

to IMO instruments

### **Section 15. Regulatory information**

#### **United States**

United States inventory (TSCA 8b): All components are active or exempted.

**SARA 302/304** 

SARA 304 RQ : Not applicable.

Composition/information on ingredients

No products were found.

**SARA 311/312** 

Classification : EYE IRRITATION - Category 2A

SKIN SENSITIZATION - Category 1

#### **Composition/information on ingredients**

Name	%	Classification
<b>4</b> ,4'-	≥20 - ≤50	SKIN SENSITIZATION - Category 1B
Isopropylidenedicyclohexanol, oligomeric reaction products with 1-chloro-2,3-epoxypropane		
9-Octadecenoic acid, 12-	≥5.0 - ≤8.0	SKIN IRRITATION - Category 2
(2-oxiranylmethoxy)-,		EYE IRRITATION - Category 2A
1,2,3-propanetriyl ester,		SKIN SENSITIZATION - Category 1B
homopolymer		
bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate	≥1.0 - ≤5.0	SKIN SENSITIZATION - Category 1B
Poly(oxy-1,2-ethanediyl), α-	≤1.9	SKIN IRRITATION - Category 2
(nonylphenyl)-ω-hydroxy-, branched, phosphates		SERIOUS EYE DAMAGE - Category 1
Alpha, Alpha"-(1,3-Xylenediyl)Bis (12-Hydroxy-Octadecanamide)	≥1.0 - ≤5.0	COMBUSTIBLE DUSTS EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

#### **SARA 313**

<u>Chemical name</u> <u>CAS number</u> <u>Concentration</u>

Supplier notification : trizinc bis(orthophosphate) 7779-90-0 1 - 5

Poly(oxy-1,2-ethanediyl),  $\alpha$ -(nonylphenyl)- $\omega$ - 68412-53-3 1 - 5

hydroxy-, branched, phosphates

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

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#### **Product name PSX 800 NEUTRAL TINT RESIN**

#### Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health: 3 Flammability: 1 Physical hazards: 1

(\*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on MSDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)

Health: 3 Flammability: 1 Instability: 1

Date of previous issue : 2/17/2020

**Organization that prepared** 

the MSDS

: EHS

**Key to abbreviations** : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available SGG = Segregation Group UN = United Nations

Indicates information that has changed from previously issued version.

#### **Disclaimer**

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.

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# SAFETY DATA SHEET



Date of issue/Date of revision 19 August 2020

Version 12

### **Section 1. Identification**

Product name : PSX 800 CURE
Product code : 00353411
Other means of : Not available.

identification

Product type : Liquid.

#### Relevant identified uses of the substance or mixture and uses advised against

Product use : Professional applications, Used by spraying.

Use of the substance/

mixture

: Coating.

Uses advised against : Not applicable.

Manufacturer : PPG Industries, Inc.

One PPG Place Pittsburgh, PA 15272 : (412) 434-4515 (U.S.)

**Emergency telephone** 

number

(514) 645-1320 (Canada)

SETIQ Interior de la República: 800-00-214-00 (México) SETIQ Ciudad de México: (55) 5559-1588 (México)

**Technical Phone Number**: 888-977-4762

### Section 2. Hazards identification

**OSHA/HCS** status

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

: SKIN CORROSION - Category 1
SERIOUS EYE DAMAGE - Category 1
SKIN SENSITIZATION - Category 1

GERM CELL MUTAGENICITY - Category 2
TOXIC TO REPRODUCTION - Category 1B

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 69.7% (Oral), 63% (Dermal), 99.1% (Inhalation)

**GHS** label elements

Hazard pictograms :







United States Page: 1/13

Product name PSX 800 CURE

### Section 2. Hazards identification

Signal word

: Danger

**Hazard statements** 

: Causes severe skin burns and eye damage.

May cause an allergic skin reaction.
Suspected of causing genetic defects.
May damage fertility or the unborn child.
Causes damage to organs. (thymus)

Causes damage to organs through prolonged or repeated exposure. (thymus)

#### **Precautionary statements**

**Prevention** 

: Øbtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

Response

Exposed: Call a POISON CENTER or doctor. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

Storage Disposal

: Store locked up.

Supplemental Jahol

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements

: Trimethoxysilanes are capable of forming methanol if hydrolyzed or ingested. If swallowed, methanol may be harmful or fatal or cause blindness. This product either contains formaldehyde or is capable of releasing formaldehyde above 0.5 ppm under certain conditions. Formaldehyde is a known cancer hazard, a skin sensitizer and a respiratory sensitizer. Emits toxic fumes when heated.

Hazards not otherwise classified

: None known.

### Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

**Product name** 

: PSX 800 CURE

%	CAS number
≥20 - ≤45 >5.0 <10	Proprietary 1067-33-0
	76

SUB codes represent substances without registered CAS Numbers.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

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Product name PSX 800 CURE

### Section 4. First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

#### **Description of necessary first aid measures**

**Eye contact**: Check for and remove any contact lenses. Immediately flush eyes with running water for

at least 15 minutes, keeping eyelids open. Seek immediate medical attention.

Inhalation : Remove to fresh air. Keep person warm and at rest. If not breathing is

irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained

personnel.

Skin contact : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water

or use recognized skin cleanser. Do NOT use solvents or thinners.

Ingestion : If swallowed, seek medical advice immediately and show this container or label. Keep

person warm and at rest. Do NOT induce vomiting.

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

**Eye contact** : Causes serious eye damage.

**Inhalation** : No known significant effects or critical hazards.

Skin contact : Causes severe burns. Causes damage to organs following a single exposure in contact

with skin. May cause an allergic skin reaction.

Ingestion : Zauses damage to organs following a single exposure if swallowed.

#### Over-exposure signs/symptoms

**Eye contact**: Adverse symptoms may include the following:

pain watering redness

**Inhalation**: Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

**Skin contact**: Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations

**Ingestion**: Adverse symptoms may include the following:

stomach pains reduced fetal weight increase in fetal deaths skeletal malformations

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments**: No specific treatment.

United States Page: 3/13

Product name PSX 800 CURE

#### Section 4. First aid measures

Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

### Section 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing media

Unsuitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

: None known.

Formaldehyde.

Specific hazards arising from the chemical

: In a fire or if heated, a pressure increase will occur and the container may burst. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.

**Hazardous thermal** decomposition products : Decomposition products may include the following materials: carbon oxides nitrogen oxides metal oxide/oxides

**Special protective actions** for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective** equipment for fire-fighters Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders:

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

**United States** Page: 4/13

Product name PSX 800 CURE

### Section 6. Accidental release measures

**Small spill** 

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

#### Precautions for safe handling

**Protective measures** 

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Special precautions** 

: Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.

Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Storage temperature: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

United States Page: 5/13

Date of issue 19 August 2020 Version 12

Product code 00353411

Product name PSX 800 CURE

### Section 8. Exposure controls/personal protection

#### **Control parameters**

#### Occupational exposure limits

Ingredient name	Exposure limits
Proprietary silane dibutyltin di(acetate)	None.  ACGIH TLV (United States, 3/2019).  Absorbed through skin.  STEL: 0.2 mg/m³, (as Sn) 15 minutes.  TWA: 0.1 mg/m³, (as Sn) 8 hours.  OSHA PEL (United States, 5/2018).  TWA: 0.1 mg/m³, (as Sn) 8 hours.  OSHA PEL (United States).
	TWA: 0.1 mg/m³, (as Sn)

#### Key to abbreviations

Α	= Acceptable Maximum Peak	S	<ul> <li>Potential skin absorption</li> </ul>
ACGIH	= American Conference of Governmental Industrial Hygienists.	SR	= Respiratory sensitization
С	= Ceiling Limit	SS	= Skin sensitization
F	= Fume	STEL	<ul> <li>Short term Exposure limit values</li> </ul>
IPEL	= Internal Permissible Exposure Limit	TD	= Total dust
OSHA	Occupational Safety and Health Administration.	TLV	= Threshold Limit Value
R	= Respirable	TWA	= Time Weighted Average
Z	= OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances		-

#### Consult local authorities for acceptable exposure limits.

procedures

**Recommended monitoring**: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### **Individual protection measures**

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection Skin protection

: Chemical splash goggles and face shield.

**United States** 

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**Product name PSX 800 CURE** 

### Section 8. Exposure controls/personal protection

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be

worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the

protection time of the gloves cannot be accurately estimated.

Gloves : butyl rubber

**Body protection**: Personal protective equipment for the body should be selected based on the task being

performed and the risks involved and should be approved by a specialist before

handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected

based on the task being performed and the risks involved and should be approved by a

specialist before handling this product.

**Respiratory protection**: Respirator selection must be based on known or anticipated exposure levels, the

hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying

with an approved standard if a risk assessment indicates this is necessary.

### Section 9. Physical and chemical properties

**Appearance** 

Physical state : Liquid.
Color : Clear.

Odor : Characteristic.
Odor threshold : Not available.
pH : Not available.

Melting point : Not available.

**Boiling point** : >37.78°C (>100°F)

Flash point : Closed cup: 96.11°C (205°F)

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Flammability (solid, gas) : Not available.

Lower and upper explosive : Not available.

(flammable) limits

Evaporation rate: Not available.Vapor pressure: Not available.Vapor density: Not available.

Relative density : 1.1 Density ( lbs / gal ) : 9.18

**Solubility** : Insoluble in the following materials: cold water.

Partition coefficient: n- : Not available.

octanol/water

Viscosity : Kinematic (40°C (104°F)): >0.21 cm<sup>2</sup>/s (>21 cSt)

**Volatility** : 0% (v/v), 0% (w/w)

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Product name PSX 800 CURE

### Section 9. Physical and chemical properties

% Solid. (w/w) : 100

### Section 10. Stability and reactivity

**Reactivity**: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** : The product is stable.

Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid** : When exposed to high temperatures may produce hazardous decomposition products.

Refer to protective measures listed in sections 7 and 8.

**Incompatible materials** : Keep away from the following materials to prevent strong exothermic reactions:

oxidizing agents, strong alkalis, strong acids.

Hazardous decomposition products

: Decomposition products may include the following materials: carbon monoxide, carbon

dioxide, smoke, oxides of nitrogen.

### Section 11. Toxicological information

#### Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
<b>P</b> roprietary silane	LD50 Dermal	Rabbit	11460 mg/kg	-
	LD50 Oral	Rat	3010 mg/kg	-
dibutyltin di(acetate)	LD50 Dermal	Rabbit	2318 mg/kg	-

**Conclusion/Summary**: There are no data available on the mixture itself.

Irritation/Corrosion

**Conclusion/Summary** 

Skin: There are no data available on the mixture itself.Eyes: There are no data available on the mixture itself.Respiratory: There are no data available on the mixture itself.

**Sensitization** 

**Conclusion/Summary** 

Skin : There are no data available on the mixture itself.

Respiratory : There are no data available on the mixture itself.

Mutagenicity

<u>matagomoty</u>

**Conclusion/Summary**: There are no data available on the mixture itself.

**Carcinogenicity** 

**Conclusion/Summary**: There are no data available on the mixture itself.

Reproductive toxicity

**Conclusion/Summary**: There are no data available on the mixture itself.

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**Product name PSX 800 CURE** 

# **Section 11. Toxicological information**

**Teratogenicity** 

**Conclusion/Summary**: There are no data available on the mixture itself.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
dibutyltin di(acetate)	Category 1	oral	thymus

#### Specific target organ toxicity (repeated exposure)

Name	,	Route of exposure	Target organs
dibutyltin di(acetate)	Category 1	oral	thymus

<u>Target organs</u>: Contains material which may cause damage to the following organs: blood, kidneys,

liver, bladder, upper respiratory tract, skin, central nervous system (CNS), eye, lens or

cornea.

#### **Aspiration hazard**

Not available.

#### Information on the likely routes of exposure

#### Potential acute health effects

**Eye contact** : Causes serious eye damage.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact**: Zauses severe burns. Causes damage to organs following a single exposure in contact

with skin. May cause an allergic skin reaction.

**Ingestion**: auses damage to organs following a single exposure if swallowed.

Over-exposure signs/symptoms

**Eye contact**: Adverse symptoms may include the following:

pain watering redness

**Inhalation** : Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

**Skin contact**: Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations

**Ingestion** : Adverse symptoms may include the following:

stomach pains reduced fetal weight increase in fetal deaths skeletal malformations

Delayed and immediate effects and also chronic effects from short and long term exposure

United States Page: 9/13

Product name PSX 800 CURE

# **Section 11. Toxicological information**

**Conclusion/Summary** 

: There are no data available on the mixture itself. Trimethoxysilanes are capable of forming methanol if hydrolyzed or ingested. If swallowed, methanol may be harmful or fatal or cause blindness. This product either contains formaldehyde or is capable of releasing formaldehyde above 0.5 ppm under certain conditions. Formaldehyde is a known cancer hazard, a skin sensitizer and a respiratory sensitizer. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and longterm exposure by oral, inhalation and dermal routes of exposure and eye contact.

Short term exposure

**Potential immediate** 

effects

Potential delayed effects

Long term exposure

**Potential immediate** 

effects

Potential delayed effects

There are no data available on the mixture itself.

: There are no data available on the mixture itself.

: There are no data available on the mixture itself.

: There are no data available on the mixture itself.

Potential chronic health effects

General : Causes damage to organs through prolonged or repeated exposure. Once sensitized, a

severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity : No known significant effects or critical hazards.

Suspected of causing genetic defects. Mutagenicity : May damage fertility or the unborn child. Reproductive toxicity

#### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)		(vapors)	Inhalation (dusts and mists) (mg/ I)
₱SX 800 CURE	3097.5	12849.6	N/A	N/A	N/A
Proprietary silane	3010	11460	N/A	N/A	N/A
dibutyltin di(acetate)	N/A	2318	N/A	N/A	N/A

# **Section 12. Ecological information**

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
,	Acute EC10 3.1 mg/l Acute EC50 0.5 mg/l		72 hours 72 hours

#### Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
díbutyltin di(acetate)	-	-	Not readily

	<b>United States</b>	Page: 10/13
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**Product name PSX 800 CURE** 

### **Section 12. Ecological information**

#### **Bioaccumulative potential**

Not available.

**Mobility in soil** 

Soil/water partition coefficient (Koc)

: Not available.

# Section 13. Disposal considerations

#### **Disposal methods**

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

# 14. Transport information

	DOT	IMDG	IATA
UN number	UN3066	UN3066	UN3066
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class (es)	8	8	8
Packing group	II	II	II
Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	(amino-functional phenyl methyl silicone resin)	(amino-functional phenyl methyl silicone resin, dibutyltin di(acetate))	Not applicable.

**Additional information** 

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Product name PSX 800 CURE

### 14. Transport information

: This product is not regulated as a marine pollutant when transported on inland waterways in sizes of

≤5 L or ≤5 kg or by road, rail, or inland air in non-bulk sizes, provided the packagings meet the

general provisions of §§ 173.24 and 173.24a.

**IMDG** : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.

**IATA** : The environmentally hazardous substance mark may appear if required by other transportation

regulations.

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

Transport in bulk according : Not applicable.

to IMO instruments

### Section 15. Regulatory information

#### **United States**

United States inventory (TSCA 8b): All components are active or exempted.

**SARA 302/304** 

SARA 304 RQ : Not applicable.

**Composition/information on ingredients** 

No products were found.

**SARA 311/312** 

Classification : SKIN CORROSION - Category 1

SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1

GERM CELL MUTAGENICITY - Category 2
TOXIC TO REPRODUCTION - Category 1B

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

#### **Composition/information on ingredients**

Name	%	Classification
Proprietary silane	Proprietary	FLAMMABLE LIQUIDS - Category 4 SKIN IRRITATION - Category 2
dibutyltin di(acetate)	≥5.0 - ≤10	SERIOUS EYE DAMAGE - Category 1 SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1B GERM CELL MUTAGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

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Product name PSX 800 CURE

# Section 15. Regulatory information

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

#### California Prop. 65

MARNING: Reproductive Harm - www.P65Warnings.ca.gov.

### Section 16. Other information

**Hazardous Material Information System (U.S.A.)** 

Health: 3 \* Flammability: 1 Physical hazards: 0

(\*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on MSDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)

Health: 3 Flammability: 1 Instability: 0

Date of previous issue : 3/26/2019

Organization that prepared

the MSDS

: EHS

**Key to abbreviations** : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available SGG = Segregation Group UN = United Nations

Indicates information that has changed from previously issued version.

#### **Disclaimer**

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.

United States Page: 13/13



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OVS Ped Bridge Artwork Coat PSX One Product Data and MSDS Sheets

# **PSX® ONE**

#### DESCRIPTION

High Solids, Single Pack Acrylic Polysiloxane

#### PRINCIPAL CHARACTERISTICS

- · High gloss topcoat
- · High solids, low VOC
- · Ease of application, brush, roll, or spray
- Isocyanate free
- · Excellent gloss retention
- · Meets SSPC Paint 36 Level 3

#### **COLOR AND GLOSS LEVEL**

- · Standard Color Offering, Safety Colors, Custom Colors
- Gloss

Note: Certain colors, especially red, orange, and yellow may require additional coats for adequate hiding, especially if applied over primers with a significant color contrast

#### BASIC DATA AT 68°F (20°C)

Data for product			
Number of components	One		
Volume solids	75 ± 2%		
VOC (Supplied)	max. 1.8 lb/US gal (approx. 210 g/l)		
Temperature resistance (Continuous)	To 200°F (93°C)		
Temperature resistance (Intermittent)	To 250°F (121°C)		
Recommended dry film thickness	2.0 - 3.0 mils (50 - 75 μm) depending on system		
Theoretical spreading rate	401 ft²/US gal for 3.0 mils (10.0 m²/l for 75 μm)		
Shelf life	At least 12 months when stored cool and dry		

#### Notes:

- Intermittent temperature resistance should be less than 5% of the time, and maximum 24 hours
- See ADDITIONAL DATA Overcoating intervals
- See ADDITIONAL DATA Curing time



Ref. P116 Page 1/5

### **PSX® ONE**

#### RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Coating performance is proportional to the degree of surface preparation. Refer to the application instructions for specific
primers and intermediate coats for application and curing procedures. Ensure epoxies are free from amine blush prior to
overcoating. All previous coats must be dry and free of contaminants. Adhere to all minimum and maximum topcoat times
for specific primers and intermediate coats. Aged coatings require abrading prior to applying the product. A test patch over
unknown coatings is recommended.

#### Atmospheric exposure conditions

- Ambient temperature should be between 40 °F (5 °C) and 120 °F (49 °C)
- · Relative Humidity should be between 20% and 90%

#### Substrate temperature

- Substrate temperature during application should be between 40°F (4°C) and 120°F (49°C).
- Substrate temperature during application should be at least 5°F (3°C) above dew point

#### SYSTEM SPECIFICATION

Primers: Amercoat One, Amercoat 185H, Amercoat 370, Amercoat 385, Amercoat 399, Amerlock 2/400

#### INSTRUCTIONS FOR USE

- Agitate with a power mixer for 1 2 minutes until completely dispersed. Ensure good off-bottom mixing
- If partial containers are to be used, return the lid to the container immediately after the required amount is poured off. Float a
  few drops of thinner to cover the top surface of the paint and re-seal the lid prior to storage. Avoid exposing the open
  container to rain or other direct sources of water. Handling the product in this manner will typically allow for shelf stability of
  3-6 months after opening.

#### Application

- Area should be sheltered from airborne particulates and pollutants
- Ensure good ventilation during application and curing
- Provide shelter to prevent wind from affecting spray patterns

#### Material temperature

Material temperature during application should be between 50°F (10°C) and 90°F (32°C)



Ref. P116 Page 2/5

### **PSX® ONE**

#### Air spray

· A moisture and oil trap in the main line is essential. Product is sensitive to moisture contamination

#### Recommended thinner

THINNER 60-12 (AMERCOAT 911)

#### Volume of thinner

0 - 20%

#### Nozzle orifice

Approx. 0.070 in (1.8 mm)

#### Airless spray

30:1 pump or larger

#### Recommended thinner

THINNER 60-12 (AMERCOAT 911)

#### Nozzle orifice

0.013 - 0.015 in (approx. 0.33 - 0.38 mm)

#### Brush/roller

- Use a high quality natural bristle brush and/or solvent resistant, 1/4" or 3/8" nap roller. Ensure brush/roller is well loaded to
  avoid air entrainment. Multiple coats may be necessary to achieve adequate film-build
- · AMERCOAT 851 flow control additive can be used to for enhanced flow and leveling with brush and roll application

#### Recommended thinner

AMERCOAT 911

#### Cleaning solvent

AMERCOAT 12 Cleaner or AMERCOAT 911 thinner

#### **ADDITIONAL DATA**

Overcoating interval for DFT up to 2.0 mils (51 µm )					
Overcoating with	Interval	50°F (10°C)	70°F (21°C)	90°F (32°C)	
itself	Minimum Maximum	5 hours Unlimited	2 hours Unlimited	1 hour Unlimited	



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### PSX® ONE

Curing time for DFT up to 2.0 mils (51 µm )				
Substrate temperature	Dry to touch	Full cure		
50°F (10°C)	3 hours	16 hours		
70°F (21°C)	2 hours	9 hours		
90°F (32°C)	1 hour	5 hours		

#### SAFETY PRECAUTIONS

- For paint and recommended thinners see INFORMATION SHEETS 1430, 1431 and relevant Material Safety Data Sheets
- This is a solvent-borne paint and care should be taken to avoid inhalation of spray mist or vapor, as well as contact between the wet paint and exposed skin or eyes

#### WORLDWIDE AVAILABILITY

It is always the aim of PPG Protective and Marine Coatings to supply the same product on a worldwide basis. However, slight modification of the product is sometimes necessary to comply with local or national rules/circumstances. Under these circumstances an alternative product data sheet is used.

#### REFERENCES

CONVERSION TABLES	INFORMATION SHEET	1410
EXPLANATION TO PRODUCT DATA SHEETS	INFORMATION SHEET	1411
SAFETY INDICATIONS	INFORMATION SHEET	1430
SAFETY IN CONFINED SPACES AND HEALTH SAFETY, EXPLOSION HAZARD -	INFORMATION SHEET	1431
TOXIC HAZARD		

#### WARRANTY

PPG warrants (i) its title to the product, (ii) that the quality of the product conforms to PPG's specifications for such product at the product and the product of the product conforms to PPG's specifications for such product at the product and the product of t

#### LIMITATIONS OF LIABILITY

IN NO EVENT WILL PPG BE LIABLE UNDER ANY THEORY OF RECOVERY WHETHER BASED ON NEGLIGENCE OF ANY WORLD. STREET LAWS BY RELATED TO, ARISING FROM, OR RESULTING FROM ANY USE MADE OF THE PRODUCT. The normal on this shad a branched for gradience of year of a based point aboratory label that PPG between the product in which is the children of the product in the product 


Ref. P116 Page 4/5

## **PSX® ONE**

Packaging: Available in 1 and 5 gallon containers

Product code	Description
PXONE3	White Base
PXONET2	Light Tint Base *
PXONET3	Neutral Tint Base *
PXONET4	Red Tint Base *
PXONET5	High Hiding Yellow Tint Base *

Note: \* Tintable with UCD PS line tints only



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### SAFETY DATA SHEET



Date of issue/Date of revision 13 June 2020

**Version 5** 

### **Section 1. Identification**

Product name : PSX ONE
Product code : 336198.01
Other means of : Not available.

identification

. INUL available

Product type : Liquid.

### Relevant identified uses of the substance or mixture and uses advised against

Product use : Industrial applications, Used by spraying.

Use of the substance/

mixture

: Coating.

Uses advised against : Not applicable.

Manufacturer : PPG Industries, Inc.

One PPG Place Pittsburgh, PA 15272 : (412) 434-4515 (U.S.)

**Emergency telephone** 

number

(412) 434-4515 (U.S.) (514) 645-1320 (Canada)

SETIQ Interior de la República: 800-00-214-00 (México) SETIQ Ciudad de México: (55) 5559-1588 (México)

**Technical Phone Number**: 888-977-4762

### Section 2. Hazards identification

**OSHA/HCS** status

Classification of the substance or mixture

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

: FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 42.3% (Oral), 43.4% (Dermal), 43.7% (Inhalation)

This product contains TiO2 which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. For many PPG products, TiO2 is utilized as a raw material in a liquid coating formulation. In this case, the TiO2 particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO2 when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/or

United States Page: 1/16

Date of issue 13 June 2020 Version 5

Product code 336198.01 Product name PSX ONE

### Section 2. Hazards identification

engineering controls (see Section 8).

### **GHS** label elements

**Hazard pictograms** 









Signal word

**Hazard statements** 

: Highly flammable liquid and vapor.

Causes skin irritation.

May cause an allergic skin reaction. Causes serious eye damage. Suspected of causing cancer.

May cause damage to organs through prolonged or repeated exposure. (hearing organs)

### **Precautionary statements**

**Prevention** 

: Øbtain special instructions before use. Wear protective gloves. Wear protective clothing. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Keep container tightly closed. Do not breathe vapor. Wash thoroughly after handling.

Response

: Immediately call a POISON CENTER or doctor. Take off contaminated clothing and wash it before reuse. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Storage** 

Store in a well-ventilated place. Keep cool.

**Disposal** 

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements

Do not taste or swallow. Trimethoxysilanes are capable of forming methanol if hydrolyzed or ingested. If swallowed, methanol may be harmful or fatal or cause blindness. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. This product either contains formaldehyde or is capable of releasing formaldehyde above 0.5 ppm under certain conditions. Formaldehyde is a known cancer hazard, a skin sensitizer and a respiratory sensitizer. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated.

Hazards not otherwise classified

Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation.

### Section 3. Composition/information on ingredients

Substance/mixture : Mixture **Product name** : PSX ONE

> **United States** Page: 2/16

**Product name PSX ONE** 

### Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
Manium dioxide	≥20 - ≤50	13463-67-7
xylene	≥5.0 - ≤8.2	1330-20-7
trimethoxy(methyl)silane	≥1.0 - ≤5.0	1185-55-3
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	≥1.0 - ≤3.6	2530-83-8
ethylbenzene	≥1.0 - ≤4.0	100-41-4
trimethoxyvinylsilane	≥0.10 - ≤2.2	2768-02-7
Proprietary silane	≤2.0	Proprietary
triethoxyoctylsilane	≥1.0 - ≤5.0	2943-75-1
2-ethylaminoethanol	≤1.5	110-73-6
α-[3-[3-(2H-benzotriazol-2-yl) derivatives	≥0.10 - ≤2.4	104810-48-2
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	≥0.10 - ≤2.1	41556-26-7

SUB codes represent substances without registered CAS Numbers.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person.

#### Description of necessary first aid measures

**Eye contact**: Check for and remove any contact lenses. Immediately flush eyes with running water for

at least 15 minutes, keeping eyelids open. Seek immediate medical attention.

Inhalation : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is

irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained

personnel.

**Skin contact**: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water

or use recognized skin cleanser. Do NOT use solvents or thinners.

Ingestion : If swallowed, seek medical advice immediately and show this container or label. Keep

person warm and at rest. Do NOT induce vomiting.

### Most important symptoms/effects, acute and delayed

### Potential acute health effects

**Eye contact** : Causes serious eye damage.

**Inhalation** : No known significant effects or critical hazards.

Skin contact: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.

**Ingestion**: Corrosive to the digestive tract. Causes burns.

Over-exposure signs/symptoms

**Eye contact**: Adverse symptoms may include the following:

pain watering redness

Inhalation : No specific data.

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### Section 4. First aid measures

**Skin contact**: Adverse symptoms may include the following:

pain or irritation redness dryness cracking

blistering may occur

**Ingestion**: Adverse symptoms may include the following:

stomach pains

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments**: No specific treatment.

**Protection of first-aiders**: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or

suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water

before removing it, or wear gloves.

### See toxicological information (Section 11)

### Section 5. Fire-fighting measures

### **Extinguishing media**

Suitable extinguishing

media

**Unsuitable extinguishing** 

media

: Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

: Do not use water jet.

Specific hazards arising from the chemical

: Mighly flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.

Hazardous thermal decomposition products

Decomposition products may include the following materials:

carbon oxides nitrogen oxides metal oxide/oxides Formaldehyde.

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water

spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing

apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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### Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders:

: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### Section 7. Handling and storage

#### Precautions for safe handling

**Protective measures** 

: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Special precautions** 

: If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.

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### Section 7. Handling and storage

Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Do not store below the following temperature: 5°C (41°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

### Section 8. Exposure controls/personal protection

### **Control parameters**

Occupational exposure limits

Ingredient name	Exposure limits
tranium dioxide	OSHA PEL (United States, 5/2018).
	TWA: 15 mg/m³ 8 hours. Form: Total dust
	ACGIH TLV (United States, 3/2019).
	TWA: 10 mg/m³ 8 hours.
xylene	ACGIH TLV (United States, 3/2019).
	STEL: 651 mg/m³ 15 minutes.
	STEL: 150 ppm 15 minutes.
	TWA: 434 mg/m³ 8 hours.
	TWA: 100 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 435 mg/m³ 8 hours.
	TWA: 100 ppm 8 hours.
trimethoxy(methyl)silane	None.
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	None.
ethylbenzene	ACGIH TLV (United States, 3/2019).
	TWA: 20 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 435 mg/m³ 8 hours.
	TWA: 100 ppm 8 hours.
trimethoxyvinylsilane	None.
Proprietary silane	None.
triethoxyoctylsilane	None.
2-ethylaminoethanol	None.
α-[3-[3-(2H-benzotriazol-2-yl) derivatives	None.
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	None.

Key to abbreviations

Α	Acceptable Maximum Peak	S	<ul> <li>Potential skin absorption</li> </ul>
ACGIH	= American Conference of Governmental Industrial Hygienists.	SR	<ul> <li>Respiratory sensitization</li> </ul>
С	= Ceiling Limit	SS	= Skin sensitization
F	= Fume	STEL	= Short term Exposure limit values
IPEL	= Internal Permissible Exposure Limit	TD	= Total dust

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### Section 8. Exposure controls/personal protection

= Occupational Safety and Health Administration.

R = Respirable

= OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances

= Threshold Limit Value TWA = Time Weighted Average

#### Consult local authorities for acceptable exposure limits.

# procedures

**Recommended monitoring**: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

### Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

### **Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### **Individual protection measures**

### **Hygiene measures**

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

### **Eye/face protection** Skin protection

Chemical splash goggles and face shield.

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

### **Gloves Body protection**

: butyl rubber

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

### Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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### Section 8. Exposure controls/personal protection

**Respiratory protection** 

: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

### Section 9. Physical and chemical properties

**Appearance** 

Physical state : Liquid.
Color : White.

Odor : Characteristic.
Odor threshold : Not available.
pH : Not available.
Melting point : Not available.

**Boiling point** : >37.78°C (>100°F)

Flash point : Closed cup: 18.89°C (66°F)

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Flammability (solid, gas) : Not available.

Lower and upper explosive : Not available.

(flammable) limits

Evaporation rate: Not available.Vapor pressure: Not available.Vapor density: Not available.

Relative density : 1.31

Density ( lbs / gal ) : 10.93

**Solubility** : Insoluble in the following materials: cold water.

Partition coefficient: n-

octanol/water

: Not available.

Viscosity : Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt)

**Volatility** : 22% (v/v), 14.809% (w/w)

% **Solid.** (w/w) : 85.191

### Section 10. Stability and reactivity

**Reactivity**: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability**: The product is stable.

Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid** : When exposed to high temperatures may produce hazardous decomposition products.

Refer to protective measures listed in sections 7 and 8.

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### Section 10. Stability and reactivity

**Incompatible materials** 

: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.

**Hazardous decomposition** products

: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

### **Section 11. Toxicological information**

### **Information on toxicological effects**

### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
titanium dioxide	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
trimethoxy(methyl)silane	LC50 Inhalation Vapor	Rat	>42.1 mg/l	4 hours
	LD50 Dermal	Rabbit	>9500 mg/kg	-
	LD50 Oral	Rat	11685 mg/kg	-
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	LC50 Inhalation Dusts and mists	Rat	>5300 mg/m³	4 hours
	LD50 Dermal	Rabbit	4.3 g/kg	_
	LD50 Oral	Rat	7.01 g/kg	_
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
'	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
trimethoxyvinylsilane	LC50 Inhalation Vapor	Rat	>16790 mg/m <sup>3</sup>	4 hours
	LD50 Dermal	Rabbit	>3.4 g/kg	-
	LD50 Oral	Rat	>7.3 g/kg	-
Proprietary silane	LC50 Inhalation Dusts and mists	Rat	>7.35 mg/l	4 hours
	LD50 Dermal	Rabbit	4 g/kg	-
	LD50 Oral	Rat	1.57 g/kg	-
2-ethylaminoethanol	LD50 Dermal	Rabbit	0.36 g/kg	-
	LD50 Oral	Rat	1 g/kg	-
α-[3-[3-(2H-benzotriazol-2-yl) derivatives	LC50 Inhalation Vapor	Rat	5800 mg/m³	4 hours
bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate	LD50 Oral	Rat	3.125 g/kg	-

### **Conclusion/Summary Irritation/Corrosion**

: There are no data available on the mixture itself.

Product/ingredient name	Result	Species	Score	Exposure	Observation
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	Eyes - Cornea opacity	Rabbit	11.8	1 minutes	24 hours

**Conclusion/Summary** 

Skin : There are no data available on the mixture itself.

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**Product name PSX ONE** 

### **Section 11. Toxicological information**

: There are no data available on the mixture itself. **Eyes** 

Respiratory : There are no data available on the mixture itself.

**Sensitization** 

3	Route of exposure	Species	Result
trimethoxy(methyl)silane Proprietary silane		. 0	Sensitizing Sensitizing

**Conclusion/Summary** 

Skin : There are no data available on the mixture itself. Respiratory : There are no data available on the mixture itself.

**Mutagenicity** 

: There are no data available on the mixture itself. **Conclusion/Summary** 

**Carcinogenicity** 

**Conclusion/Summary** : There are no data available on the mixture itself.

Classification

Product/ingredient name	OSHA	IARC	NTP
titanium dioxide	-	2B	-
xylene	-	3	-
ethylbenzene	-	2B	-

Carcinogen Classification code:

IARC: 1, 2A, 2B, 3, 4

NTP: Known to be a human carcinogen; Reasonably anticipated to be a human carcinogen

OSHA: +

Not listed/not regulated: -

Reproductive toxicity

**Conclusion/Summary** : There are no data available on the mixture itself.

**Teratogenicity** 

**Conclusion/Summary** : There are no data available on the mixture itself.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
xylene	Category 3		Respiratory tract irritation

### Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
<b>e</b> thylbenzene	Category 2	-	hearing organs

### **Target organs**

: Contains material which causes damage to the following organs: brain, upper respiratory tract, skin.

Contains material which may cause damage to the following organs: kidneys, lungs, the nervous system, liver, bladder, gastrointestinal tract, central nervous system (CNS),

ears, eve. lens or cornea, thyroid.

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### **Section 11. Toxicological information**

#### **Aspiration hazard**

Name	Result
xylene	ASPIRATION HAZARD - Category 1
ethylbenzene	ASPIRATION HAZARD - Category 1

### Information on the likely routes of exposure

### Potential acute health effects

**Eye contact** : Causes serious eye damage.

**Inhalation** : No known significant effects or critical hazards.

Skin contact: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.

Ingestion : Corrosive to the digestive tract. Causes burns.

Over-exposure signs/symptoms

**Eye contact**: Adverse symptoms may include the following:

pain watering redness

Inhalation : No specific data.

**Skin contact**: Adverse symptoms may include the following:

pain or irritation redness dryness cracking

blistering may occur

**Ingestion** : Adverse symptoms may include the following:

stomach pains

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### **Conclusion/Summary**

: There are no data available on the mixture itself. Trimethoxysilanes are capable of forming methanol if hydrolyzed or ingested. If swallowed, methanol may be harmful or fatal or cause blindness. This product either contains formaldehyde or is capable of releasing formaldehyde above 0.5 ppm under certain conditions. Formaldehyde is a known cancer hazard, a skin sensitizer and a respiratory sensitizer. This product contains TiO2 which has been classified as a GHS Carcinogen Category 2 based on its IARC 2B classification. For many PPG products, TiO2 is utilized as a raw material in a liquid coating formulation. In this case, the TiO2 particles are bound in a matrix with no meaningful potential for human exposure to unbound particles of TiO2 when the product is applied with a brush or roller. Sanding the coating surface or mist from spray applications may be harmful depending on the duration and level of exposure and require the use of appropriate personal protective equipment and/or engineering controls (see Section 8). Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatique, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and

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### **Section 11. Toxicological information**

dermal routes of exposure and eye contact.

**Short term exposure** 

**Potential immediate** 

effects

: There are no data available on the mixture itself.

Potential delayed effects

: There are no data available on the mixture itself.

Long term exposure

**Potential immediate** 

: 1

: There are no data available on the mixture itself.

effects
Potential delayed effects

: There are no data available on the mixture itself.

Potential chronic health effects

General : May cause damage to organs through prolonged or repeated exposure. Prolonged or

repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to

very low levels.

**Carcinogenicity** : Suspected of causing cancer. Risk of cancer depends on duration and level of

exposure.

Mutagenicity : No known significant effects or critical hazards.
 Teratogenicity : No known significant effects or critical hazards.
 Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

**Numerical measures of toxicity** 

**Acute toxicity estimates** 

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
PSX ONE	10113.6	5270.7	N/A	44.3	6.4
xylene	4300	1700	N/A	11	1.5
trimethoxy(methyl)silane	11685	N/A	N/A	N/A	N/A
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	7010	4300	N/A	N/A	N/A
ethylbenzene	3500	17800	N/A	17.8	1.5
trimethoxyvinylsilane	N/A	2500	N/A	11	1.5
Proprietary silane	1570	4000	N/A	N/A	N/A
2-ethylaminoethanol	1000	360	N/A	N/A	N/A
α-[3-[3-(2H-benzotriazol-2-yl) derivatives	N/A	N/A	N/A	5.8	N/A
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	3125	N/A	N/A	N/A	N/A

### Section 12. Ecological information

**Toxicity** 

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### Section 12. Ecological information

Product/ingredient name	Result	Species	Exposure
Manium dioxide trimethoxy(methyl)silane [3-(2,3-epoxypropoxy)propyl] trimethoxysilane	Acute LC50 >100 mg/l Fresh water Acute LC50 >110 mg/l Acute LC50 324 mg/l	Daphnia - Daphnia magna Fish Daphnia	48 hours 96 hours 48 hours
ethylbenzene Proprietary silane	Acute LC50 150 to 200 mg/l Fresh water Acute LC50 >934 mg/l	Fish Fish	96 hours 96 hours

### Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene	-	-	Readily
ethylbenzene	-	-	Readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
xylene	3.16	7.4 to 18.5	low
ethylbenzene	3.15	79.43	low
Proprietary silane	1.7	3.4	low

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

### Section 13. Disposal considerations

#### **Disposal methods**

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

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### 14. Transport information

	DOT	IMDG	IATA
UN number	UN1263	UN1263	UN1263
UN proper shipping name	er shipping PAINT PAINT		PAINT
Transport hazard class (es)	3	3	3
Packing group	II	II	II
<b>Environmental hazards</b>	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.
Product RQ (lbs)	1279.9	Not applicable.	Not applicable.
RQ substances	(xylene, ethylbenzene)	Not applicable.	Not applicable.

#### **Additional information**

**DOT** : Package sizes shipped in quantities less than the product reportable quantity are not subject to the

RQ (reportable quantity) transportation requirements.

IMDG : None identified.IATA : None identified.

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

Transport in bulk according : Not applicable.

to IMO instruments

### **Section 15. Regulatory information**

#### **United States**

United States inventory (TSCA 8b): All components are active or exempted.

**SARA 302/304** 

SARA 304 RQ : Not applicable.

Composition/information on ingredients

No products were found.

**SARA 311/312** 

Classification : FLAMMABLE LIQUIDS - Category 2

SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

**HNOC** - Defatting irritant

HNOC - Corrosive to digestive tract

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### Section 15. Regulatory information

### **Composition/information on ingredients**

Name	%	Classification
titanium dioxide	≥20 - ≤50	CARCINOGENICITY - Category 2
xylene	≥5.0 - ≤8.2	FLAMMABLE LIQUIDS - Category 3
		ACUTE TOXICITY (dermal) - Category 4
		ACUTE TOXICITY (inhalation) - Category 4
		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORĞAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
		ASPIRATION HAZARD - Category 1
trimethoxy(methyl)silane	≥1.0 - ≤5.0	FLAMMABLE LIQUIDS - Category 2
		SKIN SENSITIZATION - Category 1B
[3-(2,3-epoxypropoxy)propyl]	≥1.0 - ≤3.6	SERIOUS EYE DAMAGE - Category 1
trimethoxysilane		ů ,
ethylbenzene	≥1.0 - ≤4.0	FLAMMABLE LIQUIDS - Category 2
		ACUTE TOXICITY (inhalation) - Category 4
		CARCINOGENICITY - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 2
		ASPIRATION HAZARD - Category 1
		HNOC - Defatting irritant
trimethoxyvinylsilane	≥0.10 - ≤2.2	FLAMMABLE LIQUIDS - Category 2
		ACUTE TOXICITY (inhalation) - Category 4
		EYE IRRITATION - Category 2A
Proprietary silane	Proprietary	FLAMMABLE LIQUIDS - Category 4
		ACUTE TOXICITY (oral) - Category 4
		SKIN CORROSION - Category 1B
		SERIOUS EYE DAMAGE - Category 1
		SKIN SENSITIZATION - Category 1B
		HNOC - Corrosive to digestive tract
triethoxyoctylsilane	≥1.0 - ≤5.0	SKIN IRRITATION - Category 2
2-ethylaminoethanol	≤1.5	ACUTE TOXICITY (oral) - Category 4
		ACUTE TOXICITY (dermal) - Category 3
		SKIN CORROSION - Category 1
		SERIOUS EYE DAMAGE - Category 1
α-[3-[3-(2H-benzotriazol-2-yl)	≥0.10 - ≤2.4	ACUTE TOXICITY (inhalation) - Category 3
derivatives		SKIN SENSITIZATION - Category 1B
bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate	≥0.10 - ≤2.1	SKIN SENSITIZATION - Category 1B

### **SARA 313**

Supplier notificationChemical nameCAS numberConcentrationsupplier notification: xylene1330-20-75 - 10ethylbenzene100-41-41 - 5

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

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**Product name PSX ONE** 

### **Section 15. Regulatory information**

California Prop. 65

MARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

### Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health: 3 \* Flammability: 3 Physical hazards: 1

(\*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on MSDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)

Health: 3 Flammability: 3 Instability: 1

Date of previous issue : 2/19/2020

Organization that prepared : EHS

the MSDS

**Key to abbreviations** : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available

SGG = Segregation Group

**UN = United Nations** 

### Indicates information that has changed from previously issued version.

### **Disclaimer**

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.

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OVS Ped Bridge Color Verification Dot Cards

# **COLOR VERIFICATION DOT CARD**



Customer Name:							FV
Job#/Name					1#		9991 - AUBURN WA (253)804-4350
Original Color Sample	1	2	3	4	5	6	Product: PXONET3/01 Invoice: 999103030921041316 03/09/202 Employee: 262923 10:30 AM Color Name: Vertigo Green
	7	8	9	10	11	12	Color #: 999102000000384  Version: 0  Customer: LEO SAUL BERK
	13	14	15	16	17	18	BPX-1 GPX-9 NYX-20 WTX-12Y+43
Color Name/Numb	er:		'		rea:		YBX-2Y+23
Product Number: _				E	Batch Code:		- · L
							9991 - AUBURN WA
Original Color Sample 1	1	2	3	4	5	8	(253)804-4350  Product: PXONET5/01  Invoice: 999103030921041316 03/09/202  Employee: 262923 10:30 AM
,	7	8	9	. 10	11	12	Color Name: Funky Frog Color #: PPG1221-7 Version: 0 Customer: LEO SAUL BERK
	13	14	15	16	17	18	BLX-4 GPX-1Y+36 NYX-1Y+22
Color Name/Numb	or:				\roz:		WTX-3Y+8 YBX-2Y+36
Product Number: _					Batch Code:		-
							Fo
Original Color Sample	1	2	3	4	5.	6	9991 - AUBURN WA (253)804-4350 Product: PXONET3/01
	7	8	9	10	11	12	Invoice: 999103030921041316 03/09/202 Employee: 262923 10:30 AM Color Name: Pine Forest
							Color #: 999102000000373 Version: 0
	13	14	15	16	17	18	Customer: LEO SAUL BERK BLX-2Y+39
							GPX-6Y+40+1/2 NYX-4Y+30

\_Area: \_

\_\_ Batch Code: \_

### USE ONE SIDE ONLY

Product Number: \_\_

Customer Initials:\_\_\_\_

WTX-1Y+12

YBX-9

Color Name/Number: \_\_\_\_\_

# **COLOR VERIFICATION DOT CARD**



Customer Name:							Fc
ob#/Name:				P	T#:		9991 - AUBURN WA (253)804-4350
Original Color Sample	1	2	3	4	5	6	Product: PXONET2/01 Invoice: 999103030921041316 03/09/202 Employee: 262923 10:30 AM Color Name: Honeydew Melon
	7	8	9	10	11	12	Color #: Final Version Version: 0 Customer: LEO SAUL BERK BGX-1+1/2
1	13	14	15	16	17	18	GPX-1/2 NYX-4 YBX-5
Color Name/Number	:			/	Area:		
roduct Number:					Batch Code:		_
							E
Original Color Sample	T	2	3	4	5	6	9991 - AUBURN WA (253)804-4350  Product: PXONET3/01
	7	8	9	10	11	12	Invoice: 999103030921041316 03/09/202 Employee: 262923 10:30 AM Color Name: Antique Green Color#: PPG1223-7
	13	14	15	16	17	18	Version: 0 Customer: LEO SAUL BERK BLX-32 GPX-1Y+16
olor Name/Number					Area:		OOX-8 WTX-20
							YBX-4Y+20
roduct Number:					satch code.		
Original Color Sample	1	2	3	4	5	6	9991 - AUBURN WA
Original Color Sample							(253)804-4350 Product: PXONET3/01
	7	8	9	10	11	12	Invoice: 999103030921041316 03/09/ Employee: 262923 10:30  Color Name: ST Blue #5  Color #: AUB19-121  Version: 0
	13	14	15	16	17	18	Customer: LEO SAUL BERK BLX-37+1/2 BPX-4Y+16
Color Name/Number	r:				Area:		RQX-1Y+10 WTX-6

Batch Code:

USE ONE SIDE ONLY

Product Number: \_\_\_

Employee Signature:\_\_\_\_\_ Customer Initials:\_\_\_\_\_

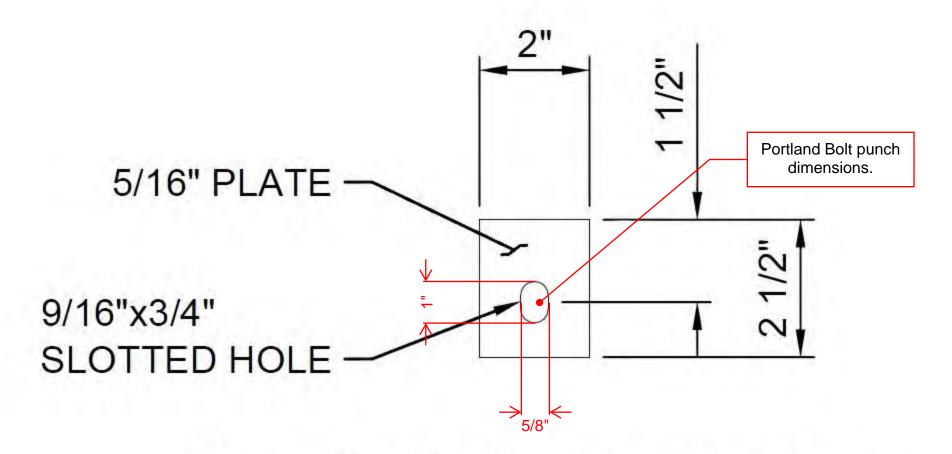
WTX-6 YOX-1Y+9+1/2

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OVS Ped Bridge Custom Plate Washer



# WASHER PLATE DETAIL

SCALE: 3" = 1'-0"