



RETURN OF SUBMITTAL

VA File No: 09 96 59-02

Title or Description <b>High-Build Glazed Coatings</b>	Date 06/13/2014	Spec. Section 09 96 59
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Contractor's Name and Address Kiewit-Turner, a Joint Venture 7200 S. Alton Way, Suite A-300 Englewood, CO 80112	Station Location VA Medical Center Denver, CO	
	Contract No. VA101CFM-C-0100	Project No. 554-501
	Transmittal Date 05/15/2014	VA File No. <b>09 96 59-02</b>

**Form of Submittal**

Letter of Affidavit of Compliance    
 Shop Drawings    
 Data Sheets    
 Brochure    
 Physical Sample  
 Manufacturers Literature or Catalog Cuts    
 Test Reports    
 Other MSDS

Submittal Scope High-Build Glazed Coatings	<p>Received 06/17/2014</p> 
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Department of Veterans Affairs Actions

Authority for Approval/Disapproval (Check appropriate box - Approvals subject to compliance with all contract requirements and to notations/corrections noted)

Approved    
 Approved, as Noted    
 Approved, as Noted, Resubmit    
 Disapproved, Resubmit    
 No Action    
 No Action, Resubmit

Submittal Items Acted Upon

<b>Submittal Item</b> 001 PRO Industrial Water Base Catalyzed Epox	<b>Status</b> APP
<b>Supplier or Manufacturer</b> Sherwin Williams	
<b>Notes/Comments</b>	

<b>Submittal Item</b> 002 Sample P02-SC	<b>Status</b> AN
<b>Supplier or Manufacturer</b> Sherwin Williams	
<b>Notes/Comments</b> 1. Gloss is correct sheen for P02-SC.	

<b>Submittal Item</b> 003 Sample SC01	<b>Status</b> ANR
<b>Supplier or Manufacturer</b> Sherwin Williams	
<b>Notes/Comments</b> 1. Color is approved. 2. Resubmit with eggshell sheen. P10 is flat, and SC01 is used at ceilings and should not be glossy.	



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VA File No: 09 96 59-02

<b>Submittal Item</b> <b>004</b> <b>Sample SC02</b> <b>Supplier or Manufacturer</b> Sherwin Williams	<b>Status</b> ANR
<b>Notes/Comments</b> 1. Color is approved. 2. Resubmit with eggshell sheen to match sheen of P02.	
<b>Submittal Item</b> <b>005</b> <b>Sample SC03</b> <b>Supplier or Manufacturer</b> Sherwin Williams	<b>Status</b> ANR
<b>Notes/Comments</b> 1. Color is approved. 2. Resubmit with eggshell sheen to match sheen of P03.	
<b>Submittal Item</b> <b>006</b> <b>Sample SC04</b> <b>Supplier or Manufacturer</b> Sherwin Williams	<b>Status</b> ANR
<b>Notes/Comments</b> 1. Color is approved. 2. Resubmit with eggshell sheen to match sheen of P04.	
<b>Submittal Item</b> <b>007</b> <b>Sample SC05</b> <b>Supplier or Manufacturer</b> Sherwin Williams	<b>Status</b> ANR
<b>Notes/Comments</b> 1. Color is approved. 2. Resubmit with eggshell sheen to match sheen of P05.	
<b>Submittal Item</b> <b>008</b> <b>Sample SC06</b> <b>Supplier or Manufacturer</b> Sherwin Williams	<b>Status</b> ANR
<b>Notes/Comments</b> 1. Color is approved. 2. Resubmit with eggshell sheen to match sheen of P06.	
<b>Submittal Item</b> <b>009</b> <b>Sample SC07</b> <b>Supplier or Manufacturer</b> Sherwin Williams	<b>Status</b> ANR
<b>Notes/Comments</b> 1. Color is approved. 2. Resubmit with eggshell sheen to match sheen of P07.	
<b>Submittal Item</b> <b>010</b> <b>Sample SC08</b> <b>Supplier or Manufacturer</b> Sherwin Williams	<b>Status</b> ANR
<b>Notes/Comments</b> 1. Color is approved. 2. Resubmit with eggshell sheen to match sheen of P08.	



**RETURN OF SUBMITTAL**

VA File No: 09 96 59-02

<b>Submittal Item</b> 011      Sample SC09	<b>Status</b> ANR
<b>Supplier or Manufacturer</b> Sherwin Williams	
<b>Notes/Comments</b> 1. Color is approved. 2. Resubmit with eggshell sheen to match sheen of P09.	
<b>Submittal Item</b> 012      Sample SC10	<b>Status</b> ANR
<b>Supplier or Manufacturer</b> Sherwin Williams	
<b>Notes/Comments</b> 1. Color is approved. 2. Resubmit with eggshell sheen, this paint is used for a darkened room with microscopes, so glossy is not correct sheen.	

Signature of Authorizing Official

ce/13/14

Date

KIEWIT-TURNER  
a Joint Venture

These shop drawings/submittals have been reviewed in accordance with the provisions of the Contract Documents. Kiewit-Turner's review shall not serve to relieve Subcontractors or Suppliers of contractual responsibilities for any error or deviation from contract and subcontract requirements.

- REVIEWED - NO COMMENTS MADE
- REVIEWED WITH COMMENTS
- RESUBMITTAL REQUIRED

DATE 5/14/14 SIGNED 

SUBMITTAL #: 09 96 59-02

<b>H+L · SOM · CRA · SAM</b> ARCHITECTS ENGINEERS	
1755 Blake Street, Suite 400, Denver CO 80202 PH: 303-295-1792, FAX: 303-292-6437	
<b>VA ECHCS REPLACEMENT MEDICAL CENTER PROJECT</b> 13611 East Colfax Avenue, Aurora, CO 80045 Project: 554-501/Contract Number: VA101CFM-C-0100	
Received Date:	<u>05/15/2014</u>
A/E Submittal Number:	<u>099659-02</u>
A/E Comments and/or Corrections are Clouded	
Reviewed By:	<u>H+L/RL, SOM/AF</u>
Date:	<u>06-06-2014</u>
<b>VA ACTION</b>	
<input type="checkbox"/> Approved	<input checked="" type="checkbox"/> Approved, As Noted
<input type="checkbox"/> Disapproved, As Noted	<input type="checkbox"/> No Action
<input type="checkbox"/> No Deviation Noted; None Approved	
RE:	<u></u>
Date:	<u>6/13/14</u>

RESUBMIT



KIEWIT-TURNER  
a Joint Venture

These shop drawings/submittals have been reviewed in accordance with the provisions of the Contract Documents. Kiewit-Turner's review shall not serve to relieve Subcontractors or Suppliers of contractual responsibilities for any error or deviation from contract and subcontract requirements.

- REVIEWED - NO COMMENTS MADE
- REVIEWED WITH COMMENTS
- RESUBMITTAL REQUIRED

DATE 5/14/14 SIGNED 

SUBMITTAL #: 09 96 59-02

**H+L · SOM** | **CRA · SAM**  
ARCHITECTS | ENGINEERS

1755 Blake Street, Suite 400, Denver CO 80202  
PH: 303-295-1792, FAX: 303-292-6437

**VA ECHCS REPLACEMENT MEDICAL CENTER PROJECT**

13611 East Colfax Avenue, Aurora, CO 80045  
Project: 554-501/Contract Number: VA101CFM-C-0100

Received Date: 05/15/2014

A/E Submittal Number: 099659-02

A/E Comments and/or Corrections are Clouded

Reviewed By: H+L/RL, SOM/AF

Date: 06-06-2014

**VA ACTION**

- Approved
- Approved, As Noted
- Disapproved, As Noted
- No Action
- No Deviation Noted; None Approved

RE: \_\_\_\_\_

Date: \_\_\_\_\_

# SUBMITTAL INDEX & COVER SHEET

 Project Name: Department of Veteran's Affairs  
 Replacement Medical Center

 Subcontractor Name: Cornerstone Paint & Coatings Inc.  
 Contact Name: Loren Epifano E-mail: [lepifano@cornerstonepainting.com](mailto:lepifano@cornerstonepainting.com)  
 Contact Phone(s): 720-904-8744

 Submittal Date: 05/08/14  
 Return By Date: 05/18/14  
 Review Days: 10

 Specification Section: Number: 09 96 59 Name: High Build Glazed Coatings

Spec. Submittal Paragraph	Spec. Product Paragraph	Submittal Type		Manufacturer	Specified or Listed Manufacturer?	Meets All Spec. Requirements?	Exceptions or Variances from Spec?	Approver Information Needed?	In This Package
			Submittal Item Description						
<b>1.3.B</b>		<b>Samples</b>							
	<b>1.3.B.1,2</b>	P02-SC Sherwin Williams "Divine White SW6105, Gloss"		Sherwin Williams	Y	Y	N	N	X
		SC01 Benjamin Moore "Superwhite Gloss" To Match P10		Sherwin Williams	Y	Y	N	N	X
		SC02 Sherwin Williams "Divine White SW6105,Gloss" To Match P02		Sherwin Williams	Y	Y	N	N	X
		SC03 Sherwin Williams "Kilim Beige SW6106, Gloss" To Match P03		Sherwin Williams	Y	Y	N	N	X
		SC04 Benjamin Moore "Buckland Blue HC151, Gloss" To Match P04		Sherwin Williams	Y	Y	N	N	X
		SC05 Sherwin Williams "Dutch Tile Blue, SW0031, Gloss" To Match P05		Sherwin Williams	Y	Y	N	N	X
		SC06 Sherwin Williams "Svelte Sage, SW6164, Gloss" To Match P06		Sherwin Williams	Y	Y	N	N	X
		SC07 Sherwin Williams "Dried Thyme SW6186, Gloss" To Match P07		Sherwin Williams	Y	Y	N	N	X
		SC08 Benjamin Moore "Bagel, SW6114, Gloss" To Match P08		Sherwin Williams	Y	Y	N	N	X
		SC09 Sherwin Williams "Latte, SW6108, Gloss" To Match P09		Sherwin Williams	Y	Y	N	N	X
		SC10 Black		Sherwin Williams	Y	Y	N	N	X
<b>1.3.C</b>		<b>Certificates</b>							
	<b>2.1.A.1</b>								X
<b>1.3.D</b>		<b>Manufacturer's Literature and Data</b>							
	<b>2.1.A</b>	<b>Special Coatings</b>							
	<b>2.1.A.1</b>	MPI #115 X-Green Pro Industrial Waterbased Epoxy Gloss		Sherwin Williams	Y	Y	N	N	X
<b>1.3.E</b>		<b>Test Reports</b>		Sherwin Williams	Y	Y	N	N	X
<b>1.3.F</b>		<b>Sustainable Design Submittals</b>							

Specification Section: Number:

Name:

Spec. Submittal Paragraph	Spec. Product Paragraph			Manufacturer	Specified or Listed Manufacturer?	Meets All Spec. Requirements?	Exceptions or Variances from Spec?	Approver Information Needed?	In This Package
		Submittal Type	Submittal Item Description						
				Reviewed By	Ryan Fisher	Date	5/13/14		
<input checked="" type="checkbox"/> Submittal is in Compliance <input type="checkbox"/> Submittal is in Compliance with Variances from Specifications				Signature 					



# PRO INDUSTRIAL™

113.22

## WATER BASED CATALYZED EPOXY

PART A  
PART A  
PART B

B73-300 SERIES  
B73-360 SERIES  
B73V300

GLOSS  
EG-SHEL  
HARDENER



As of 08/01/2013, Complies with:			
OTC	Yes	LEED® 09 CI	Yes
SCAQMD	Yes	LEED® 09 NC	Yes
CARB	Yes	LEED® 09 CS	Yes
CARB SCM 2007	Yes	LEED® 09 S	Yes
MPI Spec #	115.254	NGBS	Yes

### CHARACTERISTICS

**Pro Industrial Water Based Catalyzed Epoxy** is an interior/exterior two component, polyamine epoxy topcoat. Designed for use in industrial applications. It provides excellent corrosion resistance, abrasion resistance, color durability, chemical resistance, early moisture resistance and good adhesion to concrete, metal, or primed substrates. Suitable for use in USDA inspected facilities.

A component of the INFINITANK™ system

**Color:** most colors

**Recommended Spread Rate per coat:**

Wet mils: 5.0 - 10.0

Dry mils: 2.0 - 4.0

Coverage: 160 - 320 sq ft/gal  
approximate

Note: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

**Drying Time @ 7.0 mils wet 50% RH:**

50°F    77°F    100°F

To touch: 1 hrs    45 min    25 min

To handle: 5 hrs    4 hrs    2 hrs

To recoat:

minimum: 8 hours    6 hours    3 hours

maximum: 30 days    30 days    30 days

To cure: 7 days    7 days    7 days

**Pot Life:** 8 hrs    5½ hrs    3½ hrs

Drying time is temperature, humidity, and film thickness dependent.

**Sweat-in-time:** none required

**Mix Ratio:** 4:1

If maximum recoat time is exceeded, abrade surface before recoating.

**Finish:**

Eg-Shel 15-25 units @ 85°

Gloss 90+ units @ 60°

**Flash Point:** >200°F, SETA Flash, mixed

**Shelf Life:** 24 months, unopened

Store indoors at 40°F to 100°F.

**Tinting with CCE:**

at 100% strength. Five minutes minimum mixing on a mechanical shaker is required for complete mixing of color.

**B73W311/B73V300**

<50 g/L; <0.42 lb/gal

As per 40 CFR 59.406 and SOR/2009-264, s.12

**Volume Solids (mixed):** 41 ± 2%

**Weight Solids (mixed):** 50 ± 2%

**Weight per Gallon (mixed):** 10.0 lb

### RECOMMENDED SYSTEMS

#### Steel and Galvanized Steel:

1 ct. Pro Industrial Pro-Cryl Primer

1-2 cts. Pro Industrial Water Based Epoxy

#### Drywall:

1ct ProMar 200 Latex Primer

1-2 cts. Pro Industrial Water Based Epoxy

#### Concrete, smooth:

1-2 cts. Pro Industrial Water Based Epoxy

#### Concrete/Masonry:

1ct. Filler/Surfacer as required to fill voids and provide a continuous surface.

#### Suitable surfacers are:

Laxon Block Surfacer

Heavy Duty Block Filler

Kem Cati-Coat HS Epoxy Filler/Sealer

#### System Tested: (unless otherwise indicated)

Substrate: Steel

Surface Preparation: SSPC-SP10

2 cts. Pro Industrial Waterborne Catalyzed Epoxy, Gloss, @ 2.0 - 4.0 mils dft/ct

#### Abrasion Resistance:

Method: ASTM D4060, CS17 wheel, 1000 cycles, 1 kg load

Result: 150 mg loss

#### Adhesion:

Method: ASTM D4541

Result: 550 psi

#### Corrosion Weathering:

Method: ASTM D5894, 15 cycles, 5040 hours

Result: Passes

#### Dry Heat Resistance:

Method: ASTM D2485

Result: 250°F

#### Flexibility:

Method: ASTM D522, 180° bend, 1/8" mandrel

Result: Passes

#### Impact Resistance, Direct:

Method: ASTM D2794

Result: 100 in. lb.

#### Impact Resistance, Indirect:

Method: ASTM D2794

Result: 80 in. lb.

#### Moisture Condensation Resistance:

Method: ASTM D4585, 100°F, 5000 hours

Result: Passes

#### Pencil Hardness:

Method: ASTM D3363

Result: H

#### Salt Fog Resistance:

Method: ASTM B117, 2000 hours

Result: Passes

#### WVP Perms (US)

grains/(hr ft<sup>2</sup> in Hg)

Gloss 2.0

Eg-Shel 5.0

**PRO INDUSTRIAL™**  
**WATER BASED CATALYZED EPOXY**



**SURFACE PREPARATION**

**WARNING!** Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

**Do not use hydrocarbon solvents for cleaning.**

**Iron & Steel** - Minimum surface preparation is Power Tool Clean per SSPC-SP3. Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1 (recommended preparation is Steam Cleaning). For better performance, use Commercial Blast Cleaning per SSPC-SP6/NACE 3, blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (2 mils). Prime any bare steel within 8 hours or before flash rusting occurs.

**Aluminum** - Remove all oil, grease, dirt, oxide and other foreign material per SSPC-SP1.

**Galvanizing** - Allow to weather a minimum of six months prior to coating. Solvent Clean per SSPC-SP1. When weathering is not possible, or the surface has been treated with chromates or silicates, first Solvent Clean per SSPC-SP1 and apply a test patch. Allow paint to dry at least one week before testing adhesion. If adhesion is poor, brush blasting per SSPC-SP7 is necessary to remove these treatments. Rusty galvanizing requires a minimum of Hand Tool Cleaning per SSPC-SP2, prime the area the same day as cleaned.

**Concrete and Masonry** - For surface preparation, refer to SSPC-SP13/NACE 6 or ICRI 03732, CSP 1-3. Surfaces should be thoroughly cleaned and dry. Surface temperatures must be at least 55°F before filling. If required for a smoother finish, use the recommended filler/surfacer. The filler/surfacer must be thoroughly dry before topcoating per manufacturer's recommendations. Weathered masonry and soft or porous cement board must be brush blasted or power tool cleaned to remove loosely adhering contamination and to get to a hard, firm surface. Apply one coat Loxon Conditioner, following label recommendations.

**Previously Painted Surfaces** - If in sound condition, clean the surface of all foreign material. Smooth, hard or glossy coatings and surfaces should be dulled by abrading the surface. Apply a test area, allowing paint to dry one week before testing adhesion. If adhesion is poor, or if this product attacks the previous finish, removal of the previous coating may be necessary. If paint is peeling or badly weathered, clean surface to sound substrate and treat as a new surface as above.

**APPLICATION**

Refer to the MSDS before using  
**Temperature:** 50°F minimum  
 100°F maximum  
 (Air, surface, and material)  
 At least °F above dew point  
**Relative humidity:** 85% maximum

The following is a guide. Changes in pressures and tip sizes may be needed for proper spray characteristics. Always purge spray equipment before use with listed reducer. Any reduction must be compatible with the existing environmental and application conditions.

**Reducer** .....Water

**Airless Spray**  
 Pressure .....2000 psi  
 Hose ..... 1/4" ID  
 Tip ..... .015" - .017"  
 Filter ..... 60 mesh  
 Reduction as needed up to 10% by volume

**Conventional Spray**  
 Gun ..... DeVilbiss MBC-510  
 Fluid Tip ..... E  
 Air Nozzle ..... 704  
 Atomization Pressure ..... 40-60 psi  
 Fluid Pressure ..... 10-20 psi  
 Reduction as needed up to 10% by volume

**Brush** ..... Nylon/Polyester  
 Reduction ..... Not recommended

**Roller** ..... 3/8" woven  
 Reduction ..... Not recommended

If specific application equipment is listed above, equivalent equipment may be substituted.  
 Do not apply the material beyond recommended pot life.  
 Do not mix previously catalyzed material with new.

**CLEANUP INFORMATION**

Clean spills and splatters immediately with soap and warm water. Clean hands and tools immediately after use with soap and warm water. After cleaning, flush spray equipment with mineral spirits to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using any solvent.

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Information and Application Bulletin. The Sherwin-Williams Company warrants our products to be free of manufacturing defects in accord with applicable Sherwin-Williams quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by Sherwin-Williams. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

# MATERIAL SAFETY DATA SHEET

B73W311  
10 00

DATE OF PREPARATION  
Jul 16, 2013

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NUMBER

B73W311

### PRODUCT NAME

PRO INDUSTRIAL™ Water Based Catalyzed Epoxy - Gloss (Part A), Extra White

### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

### Telephone Numbers and Websites

<b>Product Information</b>	(800) 524-5979 www.sherwin-williams.com
<b>Regulatory Information</b>	(216) 566-2902 www.paintdocs.com
<b>Medical Emergency</b>	(216) 566-2917
<b>Transportation Emergency*</b>	(800) 424-9300
*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)	

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
27	Proprietary	Epoxy Polymer		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
19	13463-67-7	Titanium Dioxide		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	

## SECTION 3 — HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.  
EYE or SKIN contact with the product, vapor or spray mist.

### EFFECTS OF OVEREXPOSURE

**EYES:** Irritation.  
**SKIN:** Prolonged or repeated exposure may cause irritation.  
**INHALATION:** Irritation of the upper respiratory system.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

May cause allergic skin reaction in susceptible persons or skin sensitization.

### CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

### HMIS Codes

<b>Health</b>	2*
<b>Flammability</b>	0
<b>Reactivity</b>	0

## SECTION 4 — FIRST AID MEASURES

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.

**SKIN:** Wash affected area thoroughly with soap and water.  
If irritation persists or occurs later, get medical attention.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

## SECTION 5 — FIRE FIGHTING MEASURES

<b>FLASH POINT</b>	<b>LEL</b>	<b>UEL</b>	<b>FLAMMABILITY CLASSIFICATION</b>
Not Applicable	Not Applicable	Not Applicable	Not Applicable
	Applicable	Applicable	<b>EXTINGUISHING MEDIA</b>

Carbon Dioxide, Dry Chemical, Alcohol Foam

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode (due to the build-up of pressure) when exposed to extreme heat.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

### SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

## SECTION 6 — ACCIDENTAL RELEASE MEASURES

### STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

## SECTION 7 — HANDLING AND STORAGE

### STORAGE CATEGORY

Not Applicable

### PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally.

Keep out of the reach of children.

## SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

### PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m<sup>3</sup> (total dust), 3 mg/m<sup>3</sup> (respirable fraction), OSHA PEL 15 mg/m<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (respirable fraction).

### VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

### RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

### PROTECTIVE GLOVES

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

### EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

### OTHER PROTECTIVE EQUIPMENT

Use of barrier cream on exposed skin is recommended.

### OTHER PRECAUTIONS

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

<b>PRODUCT WEIGHT</b>	10.30 lb/gal	1233 g/l
<b>SPECIFIC GRAVITY</b>	1.24	
<b>BOILING POINT</b>	212 - 213 °F	100 - 100 °C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	56%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	Not Available	
<b>pH</b>	9.0	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
0.00 lb/gal	0 g/l	Less Water and Federally Exempt Solvents
0.00 lb/gal	0 g/l	Emitted VOC

## SECTION 10 — STABILITY AND REACTIVITY

**STABILITY** — Stable

**CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

None known.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION**

Will not occur

## SECTION 11 — TOXICOLOGICAL INFORMATION

**CHRONIC HEALTH HAZARDS**

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

**TOXICOLOGY DATA**

CAS No.	Ingredient Name			
Proprietary	Epoxy Polymer	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
13463-67-7	Titanium Dioxide	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available

## SECTION 12 — ECOLOGICAL INFORMATION

**ECOTOXICOLOGICAL INFORMATION**

No data available.

## SECTION 13 — DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL METHOD**

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

## SECTION 14 — TRANSPORT INFORMATION

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (ocean, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport.

**US Ground (DOT)**

Not Regulated for Transportation.

**Canada (TDG)**

Not Regulated for Transportation.

**IMO**

Not Regulated for Transportation.

**IATA/ICAO**

Not Regulated for Transportation.

**SECTION 15 — REGULATORY INFORMATION**

**SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION**

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
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No ingredients in this product are subject to SARA 313 (40 CFR 372.65C) Supplier Notification.

**CALIFORNIA PROPOSITION 65**

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**TSCA CERTIFICATION**

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

**SECTION 16 — OTHER INFORMATION**

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.



# PRO INDUSTRIAL™

113.22

## WATER BASED CATALYZED EPOXY

PART A  
PART A  
PART B

B73-300 SERIES  
B73-360 SERIES  
B73V300

GLOSS  
EG-SHEL  
HARDENER



As of 08/01/2013, Complies with:			
OTC	Yes	LEED® 09 CI	Yes
SCAQMD	Yes	LEED® 09 NC	Yes
CARB	Yes	LEED® 09 CS	Yes
CARB SCM 2007	Yes	LEED® 09 S	Yes
MPI Spec #	115.254	NGBS	Yes

### CHARACTERISTICS

**Pro Industrial Water Based Catalyzed Epoxy** is an interior/exterior two component, polyamine epoxy topcoat. Designed for use in industrial applications. It provides excellent corrosion resistance, abrasion resistance, color durability, chemical resistance, early moisture resistance and good adhesion to concrete, metal, or primed substrates. Suitable for use in USDA inspected facilities.

A component of the INFINITANK™ system

**Color:** most colors

**Recommended Spread Rate per coat:**

Wet mils: 5.0 - 10.0

Dry mils: 2.0 - 4.0

Coverage: 160 - 320 sq ft/gal approximate

Note: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

**Drying Time @ 7.0 mils wet 50% RH:**

**50°F      77°F      100°F**

To touch: 1 hrs      45 min      25 min

To handle: 5 hrs      4 hrs      2 hrs

To recoat:

minimum: 8 hours      6 hours      3 hours

maximum: 30 days      30 days      30 days

To cure: 7 days      7 days      7 days

**Pot Life:** 8 hrs      5½ hrs      3½ hrs

Drying time is temperature, humidity, and film thickness dependent.

**Sweat-in-time:** none required

**Mix Ratio:** 4:1

If maximum recoat time is exceeded, abrade surface before recoating.

**Finish:**

Eg-Shel 15-25 units @ 85°

Gloss 90+ units @ 60°

**Flash Point:** >200°F, SETA Flash, mixed

**Shelf Life:** 24 months, unopened

Store indoors at 40°F to 100°F.

**Tinting with CCE:**

at 100% strength. Five minutes minimum mixing on a mechanical shaker is required for complete mixing of color.

**B73W311/B73V300**

<50 g/L; <0.42 lb/gal

As per 40 CFR 59.406 and SOR/2009-264, s.12

**Volume Solids (mixed):** 41 ± 2%

**Weight Solids (mixed):** 50 ± 2%

**Weight per Gallon (mixed):** 10.0 lb

### RECOMMENDED SYSTEMS

#### Steel and Galvanized Steel:

1 ct. Pro Industrial Pro-Cryl Primer

1-2 cts. Pro Industrial Water Based Epoxy

#### Drywall:

1ct ProMar 200 Latex Primer

1-2 cts. Pro Industrial Water Based Epoxy

#### Concrete, smooth:

1-2 cts. Pro Industrial Water Based Epoxy

#### Concrete/Masonry:

1ct. Filler/Surfacer as required to fill voids and provide a continuous surface.

#### Suitable surfacers are:

Laxon Block Surfacer

Heavy Duty Block Filler

Kem Cati-Coat HS Epoxy Filler/Sealer

#### System Tested: (unless otherwise indicated)

Substrate: Steel

Surface Preparation: SSPC-SP10

2 cts. Pro Industrial Waterborne Catalyzed Epoxy, Gloss, @ 2.0 - 4.0 mils dft/ct

#### Abrasion Resistance:

Method: ASTM D4060, CS17 wheel, 1000 cycles, 1 kg load

Result: 150 mg loss

#### Adhesion:

Method: ASTM D4541

Result: 550 psi

#### Corrosion Weathering:

Method: ASTM D5894, 15 cycles, 5040 hours

Result: Passes

#### Dry Heat Resistance:

Method: ASTM D2485

Result: 250°F

#### Flexibility:

Method: ASTM D522, 180° bend, 1/8" mandrel

Result: Passes

#### Impact Resistance, Direct:

Method: ASTM D2794

Result: 100 in. lb.

#### Impact Resistance, Indirect:

Method: ASTM D2794

Result: 80 in. lb.

#### Moisture Condensation Resistance:

Method: ASTM D4585, 100°F, 5000 hours

Result: Passes

#### Pencil Hardness:

Method: ASTM D3363

Result: H

#### Salt Fog Resistance:

Method: ASTM B117, 2000 hours

Result: Passes

#### WVP Perms (US)

grains/(hr ft<sup>2</sup> in Hg)

Gloss 2.0

Eg-Shel 5.0

**PRO INDUSTRIAL™**  
**WATER BASED CATALYZED EPOXY**



**SURFACE PREPARATION**

**WARNING!** Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

**Do not use hydrocarbon solvents for cleaning.**

**Iron & Steel** - Minimum surface preparation is Power Tool Clean per SSPC-SP3. Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1 (recommended preparation is Steam Cleaning). For better performance, use Commercial Blast Cleaning per SSPC-SP6/NACE 3, blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (2 mils). Prime any bare steel within 8 hours or before flash rusting occurs.

**Aluminum** - Remove all oil, grease, dirt, oxide and other foreign material per SSPC-SP1.

**Galvanizing** - Allow to weather a minimum of six months prior to coating. Solvent Clean per SSPC-SP1. When weathering is not possible, or the surface has been treated with chromates or silicates, first Solvent Clean per SSPC-SP1 and apply a test patch. Allow paint to dry at least one week before testing adhesion. If adhesion is poor, brush blasting per SSPC-SP7 is necessary to remove these treatments. Rusty galvanizing requires a minimum of Hand Tool Cleaning per SSPC-SP2, prime the area the same day as cleaned.

**Concrete and Masonry** - For surface preparation, refer to SSPC-SP13/NACE 6 or ICRI 03732, CSP 1-3. Surfaces should be thoroughly cleaned and dry. Surface temperatures must be at least 55°F before filling. If required for a smoother finish, use the recommended filler/surfacer. The filler/surfacer must be thoroughly dry before topcoating per manufacturer's recommendations. Weathered masonry and soft or porous cement board must be brush blasted or power tool cleaned to remove loosely adhering contamination and to get to a hard, firm surface. Apply one coat Loxon Conditioner, following label recommendations.

**Previously Painted Surfaces** - If in sound condition, clean the surface of all foreign material. Smooth, hard or glossy coatings and surfaces should be dulled by abrading the surface. Apply a test area, allowing paint to dry one week before testing adhesion. If adhesion is poor, or if this product attacks the previous finish, removal of the previous coating may be necessary. If paint is peeling or badly weathered, clean surface to sound substrate and treat as a new surface as above.

**APPLICATION**

Refer to the MSDS before using

**Temperature:** 50°F minimum  
 100°F maximum  
 (Air, surface, and material)  
 At least °F above dew point

**Relative humidity:** 85% maximum

The following is a guide. Changes in pressures and tip sizes may be needed for proper spray characteristics. Always purge spray equipment before use with listed reducer. Any reduction must be compatible with the existing environmental and application conditions.

**Reducer** .....Water

**Airless Spray**

Pressure .....2000 psi  
 Hose ..... 1/4" ID  
 Tip ..... .015" - .017"  
 Filter ..... 60 mesh  
 Reduction as needed up to 10% by volume

**Conventional Spray**

Gun ..... DeVilbiss MBC-510  
 Fluid Tip ..... E  
 Air Nozzle ..... 704  
 Atomization Pressure ..... 40-60 psi  
 Fluid Pressure ..... 10-20 psi  
 Reduction as needed up to 10% by volume

**Brush** ..... Nylon/Polyester  
 Reduction ..... Not recommended

**Roller** ..... 3/8" woven  
 Reduction ..... Not recommended

If specific application equipment is listed above, equivalent equipment may be substituted.

Do not apply the material beyond recommended pot life.

Do not mix previously catalyzed material with new.

**CLEANUP INFORMATION**

Clean spills and spatters immediately with soap and warm water. Clean hands and tools immediately after use with soap and warm water. After cleaning, flush spray equipment with mineral spirits to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using any solvent.

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Information and Application Bulletin. The Sherwin-Williams Company warrants our products to be free of manufacturing defects in accord with applicable Sherwin-Williams quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by Sherwin-Williams. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

# MATERIAL SAFETY DATA SHEET

B73V300  
06 00

DATE OF PREPARATION  
Jul 16, 2013

## SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT NUMBER

B73V300

### PRODUCT NAME

PRO INDUSTRIAL™ Water Based Catalyzed Epoxy (Part B), Hardener

### MANUFACTURER'S NAME

THE SHERWIN-WILLIAMS COMPANY  
101 Prospect Avenue N.W.  
Cleveland, OH 44115

### Telephone Numbers and Websites

Product Information	(800) 524-5979 www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300
*for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)	

## SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
30	Proprietary	Polyamine	ACGIH TLV OSHA PEL	Not Available Not Available

## SECTION 3 — HAZARDS IDENTIFICATION

### ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.  
EYE or SKIN contact with the product, vapor or spray mist.

### EFFECTS OF OVEREXPOSURE

**EYES:** Irritation.  
**SKIN:** Prolonged or repeated exposure may cause irritation.  
**INHALATION:** Irritation of the upper respiratory system.

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

### CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

### HMIS Codes

Health	1
Flammability	0
Reactivity	0

## SECTION 4 — FIRST AID MEASURES

**EYES:** Flush eyes with large amounts of water for 15 minutes. Get medical attention.

**SKIN:** Wash affected area thoroughly with soap and water.

**INHALATION:** If affected, remove from exposure. Restore breathing. Keep warm and quiet.

**INGESTION:** Do not induce vomiting. Get medical attention immediately.

## SECTION 5 — FIRE FIGHTING MEASURES

### FLASH POINT

Not Applicable

### LEL

Not  
Applicable

### UEL

Not  
Applicable

### FLAMMABILITY CLASSIFICATION

Not Applicable

### EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Alcohol Foam

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

Closed containers may explode (due to the build-up of pressure) when exposed to extreme heat. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

**SPECIAL FIRE FIGHTING PROCEDURES**

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

**SECTION 6 — ACCIDENTAL RELEASE MEASURES**

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

Remove all sources of ignition. Ventilate the area.  
Remove with inert absorbent.

**SECTION 7 — HANDLING AND STORAGE**

**STORAGE CATEGORY**

Not Applicable

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE**

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

**SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION**

**PRECAUTIONS TO BE TAKEN IN USE**

Use only with adequate ventilation.  
Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.  
Wash hands after using.  
This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

**VENTILATION**

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

**RESPIRATORY PROTECTION**

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.  
When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

**PROTECTIVE GLOVES**

Required for long or repeated contact.

**EYE PROTECTION**

Wear safety spectacles with unperforated sideshields.

**OTHER PRECAUTIONS**

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

**SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES**

<b>PRODUCT WEIGHT</b>	8.68 lb/gal	1040 g/l
<b>SPECIFIC GRAVITY</b>	1.04	
<b>BOILING POINT</b>	212 - 213 °F	100 - 100 °C
<b>MELTING POINT</b>	Not Available	
<b>VOLATILE VOLUME</b>	69%	
<b>EVAPORATION RATE</b>	Slower than ether	
<b>VAPOR DENSITY</b>	Heavier than air	
<b>SOLUBILITY IN WATER</b>	Not Available	
<b>pH</b>	9.0	
<b>VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)</b>		
	0.00 lb/gal	0 g/l
	0.00 lb/gal	0 g/l
		Less Water and Federally Exempt Solvents
		Emitted VOC

**SECTION 10 — STABILITY AND REACTIVITY**

**STABILITY — Stable**  
**CONDITIONS TO AVOID**

None known.

**INCOMPATIBILITY**

None known.

**HAZARDOUS DECOMPOSITION PRODUCTS**

By fire: Carbon Dioxide, Carbon Monoxide

**HAZARDOUS POLYMERIZATION**

Will not occur

**SECTION 11 — TOXICOLOGICAL INFORMATION**

**CHRONIC HEALTH HAZARDS**

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

**TOXICOLOGY DATA**

CAS No.	Ingredient Name			
Proprietary	Polyamine	LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available

**SECTION 12 — ECOLOGICAL INFORMATION**

**ECOTOXICOLOGICAL INFORMATION**

No data available.

**SECTION 13 — DISPOSAL CONSIDERATIONS**

**WASTE DISPOSAL METHOD**

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

**SECTION 14 — TRANSPORT INFORMATION**

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