

Pro Industrial™**Water Based Catalyzed Epoxy**

B73-300 Series (Part A), B73V00300 (Part B)

**SHERWIN
WILLIAMS.****CHARACTERISTICS**

Pro Industrial Water Based Catalyzed Epoxy is an interior-exterior two component polyamine epoxy topcoat. Designed for use in commercial and industrial application.

Features :

- Provides excellent corrosion resistance
- Abrasion resistant
- Chemical resistant
- Early moisture resistant
- Good adhesion to concrete, metal, or primed substrates
- Suitable for use in USDA inspected facilities

For use on properly prepared:

Steel, Galvanized, Aluminum, Concrete and Masonry, Wood and Drywall and Previously Painted.

Finish: 90+ @ 60° Gloss
15-25+ @ 85° Eg-Shel
Color: Most Colors

Recommended Spreading Rate per coat:

Wet mils: 5.0-12.0
Dry mils: 2.0-4.9
Coverage: 134-328 sq. ft. per gallon
Theoretical Coverage: 657 sq. ft. per gallon
@ 1 mil dry

Approximate spreading rates are calculated on volume solids and do not include any application loss. **Note:** Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

Drying Schedule @ 7.0 mils wet, @ 50% RH:

Drying and recoat times are temperature, humidity, and film thickness dependent.

	@50°F	@77°F	@100°F
To touch	1 hr.	45 min.	25 min.
To handle	5 hrs.	4 hrs.	2 hrs.
Minimum recoat	8 hrs.	6 hrs.	3 hrs.
Maximum recoat*	30 days	30 days	30 days
To Cure	7 days	7 days	7 days
Pot Life	8 hrs.	5.5 hrs.	3.5 hrs.

Sweat-In Time none required

Mix Ratio 2 components, premeasured 4:1

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

Tinting with CCE only: at 100% strength.

Five minutes minimum mixing on a mechanical shaker is required for complete mixing of color.

Extra White B73W00311/B73V00300

(may vary by color)

V.O.C. (less exempt solvents): As Mixed

less than 50 grams per litre; 0.42 lbs. per gallon

As per 40 CFR 59.406

Volume Solids: 39 ±2%

Weight Solids: 50 ±2%

Weight per Gallon: 9.97 lbs

Flash Point: N.A.

Vehicle Type: Polyamine Epoxy

Shelf Life: Part A: 24 months

Part B: 36 months

COMPLIANCE

As of 2/21/2024, Complies with:

OTC	Yes
OTC Phase II	Yes
S.C.A.Q.M.D.	Yes
CARB	Yes
CARB SCM 2007	Yes
CARB SCM 2020	Yes
Canada	Yes
LEED® v4 & v4.1 Emissions	Yes
LEED® v4 & v4.1 V.O.C.	Yes
EPD-NSF® Certified	Yes
MIR-Manufacturer Inventory	Yes
MPI®	Yes

APPLICATION

Temperature:
minimum 50°F
maximum 100°F
air, surface and material
At least 5°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 p.s.i.
Hose ¼ inch I.D.
Tip .015-.017 inch
Filter 60 mesh
Reduction: As needed up to 10% by volume
Brush: Nylon-polyester
Roller Cover: 3/8 inch woven solvent resistant core

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

Apply paint at the recommended film thickness and spreading rate as indicated. Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating performance. Spreading rates are calculated on volume solids and do not include an application loss factor due to surface profile, roughness, or porosity of the surface, skill, and technique of the applicator, method of application, various surface irregularities, material loss during mixing, spillage, over thinning, climatic conditions, and excessive film build.

Mix contents of each component thoroughly with low speed power agitation. Make certain no pigment remains on the bottom of the can. Then combine four parts by volume of Part A with one part by volume of Part B. Thoroughly agitate the mixture with power agitation. Re-stir before using. If reducer is used, add only after both components have been thoroughly mixed together. Do not apply the material beyond recommended pot life. Do not mix previously catalyzed material with new.

Stripe coat crevices, welds, and sharp angles to prevent early failure in these areas. When using spray application, use a 50% overlap with each pass of the gun to avoid holidays, bare areas, and pinholes. If necessary, cross spray at a right angle. No painting should be done immediately after a rain or during foggy weather.

All epoxies will chalk and fade when un-topcoated in exterior environments. Apply appropriate topcoat if aesthetics are required.

SPECIFICATIONS**Steel and Galvanizing:**

1 coat Pro Industrial Pro-Cryl Primer
2 coats Pro Industrial Water Based Epoxy

(For high performance aesthetics exterior:)

1 coat Pro Industrial Pro-Cryl Primer
1 coat Pro Industrial Water Based Epoxy
1-2 coats Pro Industrial Water Base Acrolon 100

Aluminum:

1 coat Pro Industrial Pro-Cryl Primer
2 coats Pro Industrial Water Based Epoxy

(For high performance aesthetics exterior:)

1 coat Pro Industrial Pro-Cryl Primer
1 coat Pro Industrial Water Based Epoxy
1-2 coats Pro Industrial Water Base Acrolon 100

Concrete and Masonry:

1-2 coats Filler-Surfacer as required to fill voids and provide a continuous surface

Suitable surfacers Interior-Exterior are:

Loxon Acrylic Block Surfacers.
Pro Industrial Heavy Duty Block Filler,
Kem Cati-Coat HS Epoxy Filler,
Cement-Plex 875,
2 coats Pro Industrial Water Based Epoxy

(For high performance aesthetics exterior:)

1-2 coats Filler-Surfacer as required to fill voids and provide a continuous surface
1 coat Pro Industrial Water Based Epoxy
1-2 coats Pro Industrial Water Base Acrolon 100

Concrete and Masonry Smooth:

2 coats Pro Industrial Water Based Epoxy

(For high performance aesthetics exterior:)

1 coat Pro Industrial Water Based Epoxy
1-2 coats Pro Industrial Water Base Acrolon 100

Drywall:

1 coat ProMar 200 Zero V.O.C. Primer
1-2 coats Pro Industrial Water Based Epoxy

Wood, Interior:

1 coat Premium Wall & Wood Primer
2 coats Pro Industrial Water Based Epoxy

The systems listed above are representative of the product's use. Other systems may be appropriate.

Pro Industrial™

Water Based Catalyzed Epoxy

SURFACE PREPARATION

WARNING! If you scrape, sand or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH-approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting: US - National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

When cleaning the surface per SSPC-SP1, use only an emulsifying industrial detergent, followed by water to rinse. Do not use hydrocarbon solvents for cleaning.

Remove all surface contamination by washing with an appropriate cleaner, rinse thoroughly and allow to dry. Existing peeled or checked paint should be scraped and sanded to a sound surface. Glossy surfaces should be sanded dull. Stains from water, smoke, ink, pencil, grease, etc. should be sealed with the appropriate primer-sealer. Recognize that any surface preparation short of total removal of the old coating may compromise the service length of the system.

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. Prime the area the same day as cleaning.

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-SP16 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 Block - Surface should be thoroughly clean and dry. Air, material and surface temperatures must be at least 50°F (10°C) before filling. Use Pro Industrial Heavy Duty Block Filler or Loxon Acrylic Block Surfacer. The filler must be thoroughly dry before topcoating.

Masonry - All masonry must be free of dirt, oil, grease, loose paint, mortar, masonry dust, etc. Clean per SSPC-SP13/Nace 6/ ICRI No. 310.2R, CSP 1-3. Poured, troweled, or tilt-up concrete, plaster, mortar, etc. must be thoroughly cured at least 30 days at 75°F. Form release compounds and curing membranes must be removed by brush blasting. Brick must be allowed to weather for one year prior to surface preparation and painting. Prime the area the same day as cleaned. 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.

Wood - Surface must be clean, dry, and sound. Prime with recommended primer. No painting should be done immediately after a rain or during foggy weather. Knots and pitch streaks must be scraped, sanded and spot primed before full coat of primer is applied. All nail holes or small openings must be properly caulked. Sand to remove any loose or deteriorated surface wood and to obtain a proper surface profile.

SURFACE PREPARATION

Previously Painted Surface - 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, additional abrasion of the surface and/or removal of the previous coating may be necessary. Retest surface for adhesion. If paint is peeling or badly weathered, clean surface to sound substrate and treat as a new surface as above. Recognize that any surface preparation short of total removal of the old coating may compromise the service length of the system.

Mildew - Prior to attempting to remove mildew, it is always recommended to test any cleaner on a small, inconspicuous area prior to use. Bleach and bleaching type cleaners may damage or discolor existing paint films. Bleach alternative cleaning solutions may be advised.

Mildew may be removed before painting by washing with a solution of 1 part liquid bleach and 3 parts clean water. Apply the solution and scrub the mildewed area. Allow the solution to remain on the surface for 10 minutes. Rinse thoroughly with clean water and allow the surface to dry before painting. Wear protective eyewear, waterproof gloves, and protective clothing. Quickly wash off any of the mixture that comes in contact with your skin. Do not add detergents or ammonia to the bleach-water solution.

Drywall - Fill cracks and holes with patching paste/spackle and sand smooth. Joint compounds must be cured and sanded smooth. Remove all sanding dust. Prime the area the same day as cleaned.

PERFORMANCE

Extra White B73W00361/B73V00300

System Tested: (unless otherwise indicated)

Substrate: Steel

Surface Preparation SSPC-SP6

Finish: 1 coat Kem Bond HS @ 3.0 mils D.F.T.
1 coat Pro Industrial Water Based Catalyzed Epoxy @ 3.7 D.F.T. 7 day cure

Abrasion Resistance:

Method: ASTM D4060, CS17 wheel, 1000 cycles, 500 g load
Result: 32.5 mg loss

Adhesion:

Method: ASTM D4541
Result: 1059 p.s.i.

Scrub Resistance:

Based on Method: ASTM D2486
Result: 8000 cycles

Dry Heat Resistance:

Method: ASTM D2485
Result: 250°F

Pencil Hardness:

Method: ASTM D3363
Result: 6H

Water Vapor Permeance (US):

Method: ASTM D1653, Test Method B, Condition A
Result: 12.12 grains/(hr ft² in Hg) Gloss
10.04 grains/(hr ft² in Hg) Eg-Shel

Chemical Resistance Rating:

Extra White B73W00361/B73V00300
(1 hour direct exposure to dry film incidental contact)

Ammonia - Pass
10% Hydrochloric Acid - Pass
25% Sodium Hydroxide - Pass
Mineral Spirits - Pass
Motor Oil - Pass
Methyl Alcohol - Pass
Aliphatic Hydrocarbon Solvent - Pass
70% Isopropanol - Pass
Methanol - Pass

SAFETY PRECAUTIONS

Before using, carefully read **CAUTIONS** on label.

Refer to the Safety Data Sheets (SDS) before use.

FOR PROFESSIONAL USE ONLY.

Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

CLEANUP INFORMATION

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

HOTW 2/21/2024	B73W311/B73V300	21	00
HOTW 2/21/2024	B73W313/B73V300	15	00
HOTW 2/21/2024	B73T304/B73V300	18	00

HOTW 2/21/2024	B73W361/B73V300	17	00
HOTW 2/21/2024	B73W363/B73V300	09	00
HOTW 2/21/2024	B73T364/B73V300	11	00

FRC, SP