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# Pro Industrial™ Water Based Catalyzed Epoxy

B73-300 Series



**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 applications.

### Features:

- It 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, Concrete and Masonry, Wood, 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: sq.ft. per gallon	134-328
<b>Theoretical Coverage:</b>	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
<b>Pot Life</b>	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:** 41 ± 2%

**Weight Solids:** 50 ± 2%

**Weight per Gallon:** 9.97 lb

**Flash Point:** N/A

**Vehicle Type:** Polyamine Epoxy

**Shelf Life:** Part A: 24 months

Part B: 36 months

## COMPLIANCE

As of 08/10/2020, Complies with:

OTC	Yes
OTC Phase II	Yes
SCAQMD	Yes
CARB	Yes
CARB SCM 2007	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 1/4 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 lost 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

### Concrete and Masonry:

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

### Suitable surfacers Interior-Exterior are:

Laxon 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 and 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!** 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.

**When cleaning the surface per SSPC-SP1, use only an emulsifying industrial detergent, followed by a water 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 cleaned.

**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 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 water. Apply the solution and scrub the mildewed area. Allow the solution to remain on the surface for 10 minutes. Rinse thoroughly with 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.

## 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 Waterbased 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:**

**Method:** based on ASTM D2486

**Result:** 8000 scrubs

**Dry Heat Resistance:**

**Method:** ASTM D2485

**Result:** 250°F

**Pencil Hardness:**

**Method:** ASTM D3363

**Result:** 6H

**WVP Perms (US):** grains/(hr ft<sup>2</sup> in Hg)

**Gloss** 12.12

**Eg-Shel** 10.04

**Chemical Resistance Rating:**

**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, spatters, hands and tools immediately after use with soap and warm 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 08/10/2020 B73W311/B73V300 15 00

HOTW 08/10/2020 B73W313/B73V300 13 00

HOTW 08/10/2020 B73T304/B73V300 15 00

HOTW 08/10/2020 B73W361/B73V300 13 00

HOTW 08/10/2020 B73W363/B73V300 08 00

HOTW 08/10/2020 B73T364/B73V300 07 00

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