



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 05/03/2016, Complies with:		
OTC	Yes	LEED® 09 NC CI Yes
SCAQMD	Yes	LEED® 09 CS Yes
CARB	Yes	LEED® 09 H & S Yes
CARB SCM 2007	Yes	LEED® v4 Emissions Yes
MPI Spec	Yes	LEED® v4 VOC Yes

CHARACTERISTICS

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

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.

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<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): 9.97 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 Zero VOC 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:

Loxon Block Surfacers

Heavy Duty Block Filler

Kem Cati-Coat HS Epoxy Filler

Wood, Interior:

1 ct. Premium Wall & Wood Primer

2 cts. Pro Industrial Water Based Epoxy

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

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

Impact Resistance, Direct:

Method: ASTM D2794

Result: 100 in. lb.

Impact Resistance, Indirect:

Method: ASTM D2794

Result: 80 in. lb.

Adhesion:

Method: ASTM D4541

Result: 550 psi

Moisture Condensation Resistance:

Method: ASTM D4585, 100°F, 5000 hours

Result: Passes

Corrosion Weathering:

Method: ASTM D5894, 15 cycles, 5040 hours

Result: Passes

Pencil Hardness:

Method: ASTM D3363

Result: H

Dry Heat Resistance:

Method: ASTM D2485

Result: 250°F

Salt Fog Resistance:

Method: ASTM B117, 2000 hours

Result: Passes

Flexibility:

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

Result: Passes

WVP Perms (US)

grains/(hr ft² in Hg)

Gloss 2.0

Eg-Shel 5.0



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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.

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 Heavy Duty Block Filler or Loxon 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.

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, 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.

APPLICATION PROCEDURES

Apply paint at the recommended film thickness and spreading rate as indicated on front page. Application of coating below minimum recommended spreading rate will adversely affect coating performance.

SAFETY PRECAUTIONS

Before using, carefully read **CAUTIONS** on label. Refer to the Safety Data Sheets (SDSs) 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.

PERFORMANCE TIPS

No painting should be done immediately after a rain or during foggy weather. Do not apply the material beyond recommended pot life.

APPLICATION

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
Tip015" - .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.

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.

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