**PRO INDUSTRIAL™**

**WATER BASED CATALYZED EPOXY**

**Part A** B73-300 Series | Gloss
**Part A** B73-360 Series | Eg-Shel
**Part B** B73V300 | Hardener

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### 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 - 12.0
- Dry mils: 2.0 - 5.0
- Coverage: 130 - 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: 1 hrs
- 77°F: 45 min
- 100°F: 25 min

**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

**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):** 9.97 lb

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### RECOMMENDED SYSTEMS

#### Steel and Galvanized Steel:
- 1ct. Pro Industrial Pro-Cryl Primer
- 1-2cts. Pro Industrial Water Based Epoxy
- (For high performance aesthetics exterior): 1ct. Pro Industrial Pro-Cryl Primer
- 1ct. Pro Industrial Water Based Epoxy
- 1-2cts. Pro Industrial Water Base Acrolon 100

#### Concrete/Masonry:
- 1-2cts. Filler/Surfacer as required to fill voids and provide a continuous surface.

- Suitable surfacers Interior/Exterior are:
  - Loxon Block Surfacer
  - Pro Industrial Heavy Duty Block Filler
  - Kem Cati-Coat HS Epoxy Filler
  - Cement-Plex 875

- 1-2cts. Pro Industrial Water Based Epoxy
- (For high performance aesthetics exterior): 1-2cts. Filler/Surfacer as required to fill voids and provide a continuous surface.

#### Wood, Interior:
- 1ct. Premium Wall & Wood Primer
- 2cts. Pro Industrial Water Based Epoxy

#### Concrete/Interior smooth:
- 1-2cts. Pro Industrial Water Based Epoxy
- (For high performance aesthetics exterior): 1ct. Pro Industrial Water Based Epoxy

#### Wood, Interior:
- 1ct. Premium Wall & Wood Primer
- 2cts. Pro Industrial Water Based Epoxy

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**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

**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):**
- Gloss 2.0 grains/(hr ft² in Hg)
- Eg-Shel 5.0
**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 topical coating.

**Masonry** - All masonry must be free of dirt, oil, grease, loose paint, mortar, masonry dust, etc. Clean per SSPC-SP13/Nace 6/IICRI No. 310.2R, CSP 1-3. Pour, troweled, or lift-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. All epoxies will chalk and fade when un-topcoated in exterior environments. Apply appropriate topcoat if aesthetics are required. Do not mix previously catalyzed material with new.

**APPLICATION**

**Temperature:** 
- 50°F minimum
- 100°F maximum
(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 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.

**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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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 or visit www.paintdocs.com to obtain the most current version of the PDS and/or an SDS.