



PRO INDUSTRIAL™

113.20 HI-BILD WATERBASED CATALYZED EPOXY

PART A B71-100 **SERIES**
PART B B71V100 **HIGH LUSTER HARDENER**
PART B B71V110 **LOW LUSTER HARDENER**

CHARACTERISTICS

Pro Industrial Hi-Bild Waterbased Catalyzed Epoxy is a high performance, interior/exterior, VOC compliant, low odor, high film build, two-component, water based acrylic epoxy. It dries to a tough, tile-like finish that exhibits excellent durability and performance properties. **Pro Industrial Hi-Bild Waterbased Catalyzed Epoxy** resists: moisture, abrasion, select chemicals, impact, and yellowing.

Color: Most colors
Recommended Spread Rate per coat:
 Wet mils: 10.0 - 15.0
 Dry mils: 4.0 - 6.0
 Coverage: 110 - 170 sq ft/gal approximate

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

Drying Schedule @ 10.0 mils wet, 50% RH: @ 50°F @ 77°F @ 120°F
 To touch: 2 hrs 1 hr 30 min
 To handle 16 hrs 12 hrs 8 hrs
 To recoat:
 minimum: 4 hrs 2 hrs 1 hr
 maximum: 30 days 30 days 30 days
 To cure: 30 days 14 days 7 days

If maximum recoat time is exceeded, abrade surface before recoating. Drying time is temperature, humidity, and film thickness dependent.

Mix Ratio: 4:1
Pot Life: 8 hours @ 77°F, 50% RH
Sweat-in Time: 15 min. @ 77°F, 50% RH

Finish: High and Low Luster
Flash Point: 230°F, SETA, mixed
Tint Part A with BAC or Envirotone at:

Base	oz/gal	Strength
Extra White	0-4	100%
Deep Base	8-12	100%
Ultra-deep Base	8-12	100%

B71W111 (may vary by color)
VOC (EPA Method 24): <250 g/L 2.08 lb/gal, mixed
Volume Solids: 42% ± 2%, mixed
Weight Solids: 52% ± 2%, mixed
Weight per Gallon: lb

SPECIFICATIONS

Steel
 1 ct: Waterbased Tile-Clad Primer
 1-2 cts: Pro Industrial Hi-Bild WB Catalyzed Epoxy

Steel
 1 ct: DTM Acrylic Primer/Finish
 1-2 cts: Pro Industrial Hi-Bild WB Catalyzed Epoxy

Steel
 1 ct: Pro-Cryl Universal Primer
 1-2 cts: Pro Industrial Hi-Bild WB Catalyzed Epoxy

Drywall:
 1 ct: PrepRite 200 Primer
 1-2 cts: Pro Industrial Hi-Bild WB Catalyzed Epoxy

Galvanized
 2 cts: Pro Industrial Hi-Bild WB Catalyzed Epoxy

Masonry
 1 ct: Heavy Duty Block Filler
 1-2 cts: Pro Industrial Hi-Bild WB Catalyzed Epoxy

Masonry, smooth
 2 cts: Pro Industrial Hi-Bild WB Catalyzed Epoxy

System Tested:
 Substrate: Steel
 Surface Preparation: SSPC-SP10/NACE 2
 Primer: 1 ct. WB Tile-Clad Epoxy Primer
 Finish: 1 ct. Pro Industrial Hi-Bild WB Catalyzed Epoxy

Adhesion:
 Method: ASTM D4541
 Result: 751 psi

Exterior Durability:
 Method: 1 year
 Result: Excellent, chalks

Pencil Hardness:
 Method: ASTM D3363
 Result: HB

Thermal Shock:
 Method: ASTM D2246, 12 cycles
 Result: Passes

Wind Driven Rain:
 Method: Federal Spec. TT-C-555B
 Result: Passes
Hi-Bild WB Catalyzed Epoxy only

Abrasion Resistance:
 Method: ASTM D4060, CS10 wheel, 1000 cycles 1 kg load
 Result: 141 mg loss

Dry Heat Resistance:
 Method: ASTM D2485
 Result: 180°F, intermittent 200°F

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

Impact Resistance, Direct:
 Method: ASTM D2794
 Result: 42 in. lb.

Impact Resistance, Indirect:
 Method: ASTM D2794
 Result: 24 in. lb.

Resists fumes, splash, and spillage of mild acids, alkalies, salts, aliphatic and aromatic hydrocarbon solvents, and lubricating oils (ASTM D3912).

113.20

PRO INDUSTRIAL™

HI-BILD WATERBASED CATALYZED EPOXY

PART A B71-100
PART B B71V100
PART B B71V110

SERIES
HIGH LUSTER HARDENER
LOW LUSTER HARDENER



SHERWIN WILLIAMS.

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.

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

Steel - Minimum surface preparation is Hand Tool Clean per SSPC-SP2. Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1.

Galvanized Steel - 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.

SURFACE PREPARATION

Concrete - New - For surface preparation, refer to SSPC-SP13/NACE 6, or ICRI 03732, CSP 1-3. Surface must be clean, dry, sound, and offer sufficient profile to achieve adequate adhesion.

Concrete - Old - Surface preparation is done in much the same manner as new concrete; however, if the concrete is contaminated with oils, grease, chemicals, etc., they must be removed by cleaning with a strong detergent.

APPLICATION

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.

- Reducer/Clean Up Water
Airless Spray
Pressure 2400 psi
Hose 3/8" ID
Tip019" - .023"
Filter 60 mesh
Reduction as needed up to 6% by volume
Brush Nylon/Polyester
Reduction Not recommended
Roller Cover 3/8" woven
Reduction Not recommended

CLEANUP INFORMATION

Clean spills and spatters immediately with soap and warm water. Clean hands and tools immediately after use with soap and warm water.

CAUTIONS

When using spray application, use a 50% overlap with each pass of the gun to avoid holidays, bare areas, and pinholes.

Excessive reduction of material can affect film build, appearance, and adhesion.

Do not apply the material beyond recommended pot life.

Do not mix previously catalyzed material with new.

In order to avoid blockage of spray equipment, clean equipment before use or before periods of extended downtime with water.

Shelf Life: 12 months, unopened
Store indoors at 40°F to 100°F.

See label for additional cautions.

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.

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.