



WATER BASED CATALYZED EPOXY

B70W00211 Extra White
B70W00213 Deep Base
B70T00204 Ultradeep Base
B60V00015 Gloss Hardener
B60V00025 Semi-Gloss Hardener

As of 07/25/2017, Complies with:			
OTC	Yes	LEED® 09 NC, Cl	Yes
OTC Phase II	Yes	LEED® 09 CS	Yes
SCAQMD	No	LEED® 09 S	Yes
CARB	Yes	LEED® v4 Emissions	No
CARB SCM 2007	Yes	LEED® v4 VOC	No
Canada	Yes	MPI	

CHARACTERISTICS

WATER BASED CATALYZED EPOXY is a two-component water based, catalyzed, acrylic epoxy resin coating formulated for high performance use in industrial and commercial environments.

Features:

- Chemical resistant
- Impact and abrasion resistance
- Wash and Scrub resistant
- Flash rust resistant

For use on properly prepared:

- Steel, Galvanized & Aluminum
- Concrete/Masonry
- Wood
- Drywall
- Previously Painted

Recommended for use in:

- Hospitals, Schools
- Pharmaceutical houses
- Institutional kitchens
- Storage Tanks & Piping & Structural Steel
- Manufacturing Facilities & New Construction
- Suitable for use in USDA inspected facilities

Flash Point: N/A

Tinting with CCE:

Base	oz/gal	Strength
Extra White	0 - 6	SherColor
Deep base	4 - 14	SherColor
Ultradeep	10 - 14	SherColor

Shelf Life: Part A 36 months, unopened
 Part B 24 months, unopened

Mix Ratio: 2 components, premeasured 4:1

Finish: 60°+@60° Gloss
 35-45@60° Semi-Gloss

Gloss Extra White B70W00211/B60V15
 (may vary by base)

VOC: (mixed less exempt solvents)
 143 g/L - 1.19 lb/gal
 (as per 40 CFR 59.406 and SOR/2009-264, s. 12)
Volume Solids: 38 ± 2%
Weight Solids: 47 ± 2%
Weight per Gallon: 9.67 lb/gal

Gloss Deep Base B70W00213/B60V15

VOC: (mixed less exempt solvents)
 168 g/L - 1.40 lb/gal
 (as per 40 CFR 59.406 and SOR/2009-264, s. 12)
Volume Solids: 37 ± 2%
Weight Solids: 43 ± 2%
Weight per Gallon: 9.14 lb/gal

SPECIFICATIONS

Color: Extra White, Deep Base & Ultradeep Tint Base-wide range of colors available
Recommended Spread Rate per coat: Gloss Extra White B70W00211/B60V15 (may vary by base)

wet mils: 6.5 - 8.0
 dry mils: 2.5 - 3.0
 coverage: 243 - 203 sq ft/gal approximate

Theoretical coverage: 609 sq ft/gal @ 1 mil dry

Drying Schedule @ 8.0 mils wet, 50% RH: Drying time is temperature, humidity, and film thickness dependent.

	@ 55°F/12.8°C	@ 77°F/25°C	@ 120°F/49°C
To touch:	2 hours	1 hour	20 minutes
Tack free:	4 hours	2 hours	30 minutes
Minimum recoat:	28 hours	18-24 hours	4 hours
Maximum recoat*:	30 days	30 days	30 days
To cure:	20 days	14 days	7 days
Pot Life:	48 hours	36 hours	16 hours
Sweat-in-time:	60 minutes	30 minutes	30 minutes

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

RECOMMENDED SYSTEMS

Steel & Rusted Galvanized,

acrylic primer:

- 1ct. Pro Industrial Pro-Cryl Primer
- 2cts. Water Base Catalyzed Epoxy

Steel alkyd primer:

- 1ct. Kem Bond HS
- 2cts. Water Base Catalyzed Epoxy

Steel epoxy primer:

- 1ct. Water Based Tile-Clad Primer
- 2cts. Water Base Catalyzed Epoxy

Aluminum & Galvanized Metal:

- 2cts. Water Base Catalyzed Epoxy

Concrete Block:

- 1ct. Pro Industrial Heavy Duty Block Filler
- 2cts. Water Base Catalyzed Epoxy

Drywall, Interior:

- 1ct. ProMar 200 Zero VOC Primer
- 2cts. Water Base Catalyzed Epoxy

Masonry/Smooth:

- 2cts. Water Base Catalyzed Epoxy

Masonry/Smooth: (Weathered or soft masonry)

- 1ct. Loxon Concrete and Masonry Primer
- Or
- 1ct. Loxon Conditioner

- 2cts. Water Base Catalyzed Epoxy

Wood, Exterior:

- 1ct. Exterior Oil-Based Wood Primer
- 2cts. Water Base Catalyzed Epoxy

Wood, Exterior:(For high performance

aesthetics:)

- 1ct. Exterior Oil-Based Wood Primer
- 1ct. Water Base Catalyzed Epoxy
- 1ct. Pro Industrial Water Base Acrolon 100

Wood, Interior:

- 1ct. Premium Wall & Wood Primer
- 2cts. Water Base Catalyzed Epoxy

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

System: (unless otherwise indicated)

Substrate: Steel
 Surface Preparation: SSPC-SP6/NACE 3
 Finish: Water Based Catalyzed Epoxy- @ 3.0 mils dft/ct (unless otherwise noted)

Abrasion Resistance:

Method: ASTM D2486
 Results: >500 cycles

Adhesion¹:

Method: ASTM D3359
 Results: 4B minimum

Fineness of Grind²:

Result: 6 Hegman minimum

Dry Heat Resistance:

Method: ASTM D2485 Method A
 Result: 250°F/121°C

Flexibility:

Method: ASTM D522, 180° bend,
 1/4" mandrel

Result: Passes

Scrub Resistance¹:

Method: ASTM D2486
 Result: 4800 scrubs

Chemical Resistance: Incidental contact

Excellent resistance to: Tap water, 10% Acetic Acid, 10% Sodium Hydroxide

Great resistance to: Ethanol, Toluene, Mineral Spirits, 10% Sulphuric Acid, Motor Oil

Limited resistance to: MEK

¹ 1 ct. Water Based Epoxy over 1 ct. Pro Industrial Pro-Cryl Universal Prime ² Standard test based on Certificate of Analysis



WATER BASED

CATALYZED EPOXY B70 SERIES

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.**

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. **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 55°F (12.8°C) before filling. Use Pro Industrial Heavy Duty Block Filler or Loxon Block Surfer. 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.

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.

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. Primer recommended.

APPLICATION PROCEDURES

Apply paint at the recommended film thickness and spreading rate as indicated on front page. 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.

SAFETY PRECAUTIONS

Refer to the SDS sheets 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

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. Allow the material to sweat-in as indicated. Re-stir before using. If reducer solvent is used, add only after both components have been thoroughly mixed, after sweat-in.

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.

APPLICATION

Refer to the SDS sheet before use

Temperature: 55°F/12.8°C minimum
100°F/37.8°C 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. Excessive reduction of material can affect film build, appearance, and adhesion.

Reducer/Clean Up Water
Airless Spray

Pressure 2000 psi

Hose 1/4" ID

Tip015"

Filter 100 mesh

Reduction . As needed up to 12.5% by volume

Brush

Brush Nylon / polyester

Reduction Not recommended

Roller

Cover 3/8" woven solvent resistant core

Reduction Not recommended

If specific application equipment is not listed above, equivalent equipment may be substituted.

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

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 05/15/2017 B70W211/B60V25 01 143

HOTW 05/15/2017 B70W213/B60V25 01 168

HOTW 05/15/2017 B70T204/B60V25 01 162