


**SHERWIN
WILLIAMS®**

Water Based Catalyzed Epoxy

B70-200 Series

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
- Suitable for use in USDA inspected facilities

For use on properly prepared:

Steel, Galvanized & Aluminum, Concrete and Masonry, Wood, Drywall and Previously Painted.

Recommended for use in:

Hospitals, Schools, Pharmaceutical houses, Institutional kitchens, Storage Tanks & Piping & Structural Steel, Manufacturing Facilities and New Construction

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

Color: Most colors

Recommended Spreading Rate per coat:

Wet mils: 6.5-8.0
Dry mils: 2.3-2.8
Coverage: sq.ft. per gallon 200-243
Theoretical Coverage: 561
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 @ 8.0 mils wet, @ 50% RH:

Drying, and recoat times are temperature, humidity, and film thickness dependent.

| | @55°F | @77°F | @120°F |
|----------------------|---------|------------|---------|
| To touch: | 2 hrs. | 1 hr. | 20 min. |
| Tack free | 4 hrs. | 2 hrs. | 30 min. |
| Minimum recoat: | 28 hrs. | 18-24 hrs. | 4 hrs. |
| Maximum recoat.* | 30 days | 30 days | 30 days |
| To cure | 20 days | 14 days | 7 days |
| Pot Life | 48 hrs. | 36 hrs. | 16 hrs. |
| Sweat-In-Time | 60 min | 30 min. | 30min. |

Mix Ratio: 2 components, premeasured 4:1

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

Tinting with CCE only:

| Base | oz. per gallon | Strength |
|----------------|----------------|-----------|
| Extra White | 0-6 | SherColor |
| Deep Base | 4-14 | SherColor |
| Ultradeep Base | 10-14 | SherColor |

Extra White B70W00211/B60V15

(may vary by color)

V.O.C. (less exempt solvents): As mixed
159 grams per litre; 1.33 lbs. per gallon

As per 40 CFR 59.406

Volume Solids: 35 ± 2%
Weight Solids: 46 ± 2%
Weight per Gallon: 9.55 lb
Flash Point: N/A
Vehicle Type: Acrylic Epoxy
Shelf Life: Part A: 36 months
Part B: 24 months

COMPLIANCE

As of 05/10/2021, Complies with:

| | |
|--------------------------------------|------------|
| OTC | Yes |
| OTC Phase II | Yes |
| S.C.A.Q.M.D. | No |
| CARB | Yes |
| CARB SCM 2007 | Yes |
| CARB SCM 2020 | No |
| Canada | Yes |
| LEED® v4 & v4.1 Emissions | No |
| LEED® v4 & v4.1 V.O.C. | No |
| EPD-NSF® Certified | No |
| MIR-Manufacturer Inventory | No |
| MPI® | No |

APPLICATION

Temperature:
minimum 55°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 inch
Filter 100 mesh
Reduction As needed up to 12.5% 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. 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 require.

SPECIFICATIONS

Steel:

1 coat Pro Industrial Pro-Cryl Primer
or Kem Bonds HS
2 coats Water Base Catalyzed Epoxy

Aluminum and Galvanizing:

2 coats Water Base Catalyzed Epoxy

Galvanizing rusted:

1 coat Pro Industrial Pro-Cryl Primer
2 coats Water Base Catalyzed Epoxy

Concrete Block (CMU):

1 coat Pro Industrial Heavy Duty Blockfiller
or Loxon Acrylic Block Surfacers
2 coats Water Base Catalyzed Epoxy

Concrete and Masonry Smooth: (Weathered or soft masonry)

1 coat Loxon Concrete & Masonry Primer
or
1 coat Loxon Acrylic Conditioner
2 coats Water Base Catalyzed Epoxy

Drywall:

1 coat ProMar 200 Zero V.O.C. Primer
1-2 coats Water Base Catalyzed Epoxy

Wood, exterior:

1 coat Exterior Wood Primer
2 coats Water Base Catalyzed Epoxy

Wood, exterior:

(For high performance aesthetics:)
1coat Exterior Oil-Based Wood Primer
1coat Water Base Catalyzed Epoxy
1coat Pro Industrial Water Base Acrolon 100

Wood, interior:

1 coat Premium Wall and Wood Primer
2 coats Water Base Catalyzed Epoxy

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

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. Primer recommended for best performance.

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 B70W00211/B60V00015

System Tested: (unless otherwise indicated)

Substrate: Steel

Surface Preparation: SSPC-SP6

Finish: 1coat Water Based Epoxy @ 2.0 -3.0 mils D.F.T.

Adhesion¹:

Method: ASTM D3359

Result: 4B minimum.

Abrasion Resistance:

Method: ASTM D2486

Result: greater than 500 cycles

Scrub Resistance:

Method: based on ASTM D2486

Result: 4800 scrubs

Dry Heat Resistance:

Method: ASTM D2485

Result: 250°F

Flexibility:

Method: ASTM D522, 1/4 inch mandrel

Result: Pass

Fineness of Grind²:

Method: Hegman

Result: 6 Hegman minimum

Chemical Resistance Rating: 7 day ambient cure

B70W00211/B60V00015

(1 hour direct exposure to dry film incidental contact)

10% Acetic Acid- No apparent change

10% Sulfuric Acid-No apparent change

10% Sodium Hydroxide-No apparent change

Tap water-No apparent change

Ethanol, Toluene & MEK-Slight color change

¹ 1 ct. Water Based Epoxy over 1 ct. Pro Industrial Pro-Cryl Universal Prime

² Standard test based on Certificate of Analysis

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 05/10/2021 B70W211/B60V25 27 159

HOTW 05/10/2021 B70W213/B60V25 14 186

HOTW 05/10/2021 B70T204/B60V25 25 179