

Pro Industrial™

Pre-Catalyzed Waterbased Epoxy Eg-Shel

K45-1150 Series


**SHERWIN
WILLIAMS®**

CHARACTERISTICS

Pro Industrial Pre-Catalyzed Waterbased Eg-Shel Epoxy is a single-component pre-catalyzed waterborne acrylic epoxy that offers the adhesion, durability and resistance to stains and most cleaning solvents usually characteristic of two-component waterborne acrylic epoxy products.

This product can be applied over a wide variety of primers on properly prepared interior metal, wood, masonry, plaster and drywall.

Features:

- Interior institutional - commercial high maintenance areas
- Upgrade surfaces painted with conventional coatings
- High performance protection system with excellent adhesion
- Chemical resistant
- Institutional dining and kitchen areas, Hospitals and Schools
- Suitable for use in USDA inspected facilities

For use on properly prepared:

Steel, Galvanized & Aluminum, Concrete and Masonry, wood and drywall.

Finish: 15-25 units @60°
25-35 units @85°

Color: Most colors

Recommended Spreading Rate per coat:

Wet mils: 4.0
Dry mils: 1.4
Coverage: 400 sq.ft. per gallon
Theoretical Coverage: 561 sq. ft. per gallon
@ 1 mil dry

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

Drying Schedule @ 4.0 mils wet, @ 50% RH:
Drying, and recoat times are temperature, humidity, and film thickness dependent. * If this product dries 72 hours or longer it must be sanded before it is recoated

@77°F

To Touch: 1 Hour

To Recoat: 8 hours

Maximum recoat* 72+ hours

Full dry 5-7 days

Tinting with CCE only: Use SherColor Formulation System

Extra White K45W01151

(may vary by color)

V.O.C. (less exempt solvents):

less than 50 grams per litre; 0.42 lbs. per gallon

As per 40 CFR 59.406

Volume Solids: 35 ± 2%

Weight Solids: 50 ± 2%

Weight per Gallon: 10.57 lb

Flash Point: N/A

Vehicle Type: Acrylic Epoxy

Shelf Life: 36 months, unopened

Mildew Resistant:

This coating contains agents which inhibit the growth of mildew on the surface of this coating film.

COMPLIANCE

As of 07/13/2020, Complies with:

OTC	Yes
OTC Phase II	Yes
SCAQMD	Yes
CARB	Yes
CARB SCM 2007	Yes
Canada	Yes
LEED® v4 & v4.1 Emissions	Yes
LEED® v4 & v4.1 V.O.C.	Yes
EPD-NSF® Certified	Yes
MIR-Manufacturer Inventory	No
MPI®	Yes

APPLICATION

Temperature:	
minimum	50°F
maximum	120°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: Not recommended

Airless Spray:	
Pressure	1800-2700 p.s.i.
Hose	1/4 inch I.D.
Tip	.015 - .021 inch
Filter	60 mesh

Reduction Not recommended

Brush Nylon-polyester

Roller Cover 1/4-1/2 inch woven

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.

Not for use on surfaces continuously wet or under water, such as bath tubs, sinks, showers, or countertops. Not for floors.

SPECIFICATIONS

Steel:

1 coat Pro Industrial Pro-Cryl Primer or Kem Bonds HS
2 coats Pro Industrial Pre-Cat Epoxy

Aluminum:

1 coat Pro Industrial Pro-Cryl Primer
2 coats Pro Industrial Pre-Cat Epoxy

Concrete Block (CMU):

1 coat Pro Industrial Heavy Duty Blockfiller or Loxon Acrylic Block Surfacers
2 coats Pro Industrial Pre-Cat Epoxy

Concrete-Masonry:

1 coat Loxon Concrete & Masonry Primer or
1 coat Loxon Conditioner
2 coats Pro Industrial Pre-Cat Epoxy

Drywall:

1 coat ProMar 200 Zero V.O.C. Primer
1-2 coats Pro Industrial Pre-Cat Epoxy

Galvanizing:

1 coat Pro Industrial Pro-Cryl Primer
2 coats Pro Industrial Pre-Cat Epoxy

Wood, interior:

1 coat Premium Wall and Wood Primer
2 coats Pro Industrial Pre-Cat Epoxy

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

Pro Industrial™

Pre-Catalyzed Waterbased Epoxy Eg-Shel

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.

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 Hand Tool Clean per SSPC-SP2. Remove all oil and grease from surface per SSPC-SP1. For better performance, use Commercial Blast Cleaning per SSPC-SP6. Primer recommended for best performance. 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 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.

Drywall - Fill cracks and holes with patching paste/spackle and sand smooth. Joint compounds must be cured and sanded smooth. Remove all sanding dust. Prime the area the same day as cleaned.

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 K45W01151

System Tested: (unless otherwise indicated)

Substrate: Steel

Surface Preparation: SSPC-SP6

Finish: 1 coat Pro Industrial Pro-Cryl
1 coat Pro Industrial Pre-Cat Epoxy

Adhesion: Darker colors require longer cure time for same level of adhesion

Method: ASTM D3359

Result: 5B

Pencil Hardness:

Method: ASTM D3363

Result: 2B

Scrub Resistance: with Stiff Bristle Brush and Pumice
Scrub Media, with shim

Method: ASTM D2486

Result: 500-600 cycles

Water Vapor Permeance (US):

Method: ASTM D1653

Result: 17.18 grains/(hr ft² in Hg)

Block Resistance: 7 day cure @ 3 mils D.F.T.

Method: Lab assessment

Result: Excellent

Chemical Resistance Rating:

(1 hour direct exposure to dry film 28 day cure)

Distilled water room temperature-Excellent

Ethanol-Excellent

10% Acetic Acid-Excellent

25% Sodium Hydroxide-Excellent

50% Sulfuric Acid-Excellent

5% Phosphoric Acid-Excellent

10% Hydrochloric Acid-Excellent

Methanol-Excellent

*Motor oil / Vegetable oil-Excellent

*Mineral Spirits-Excellent

*2 hour exposure

Stain Resistance Rating:

(1 hour direct exposure to dry film 4 day cure)

Mustard-Excellent

Grape Juice-Excellent

Red Crayon-Excellent

Lipstick, Red-Limited

Ink-Limited

Coffee-Excellent

Tea-Excellent

Ketchup-Excellent

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 07/16/2020 K45W01151 07 40