Pro Industrial™

Pre-Catalyzed Waterbased Epoxy Semi-Gloss

K46–1150/2150 Series

CHARACTERISTICS

Pro Industrial Pre-Catalyzed Waterbased Semi-Gloss 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:	48-58 units @ 60° 69-79 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:	545 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.

	@77°F
To touch	1 hour
To recoat	8 hours
Maximum recoat*	72+ hours
Full dry	5-7 days

*If this product dries 72 hours or longer it must be sanded before it is recoated.

Tinting with CCE only: Use SherColor Formulation System

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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:	49 ±2%
Weight per Gallon:	10.38 lbs
Flash Point:	N.A.
Vehicle Type:	Acrylic Epoxy
Shelf Life:	36 months, unopened

Anti-microbial:
This coating contains agents which inhibit the growth of mold and mildew on the surface of this coating film.

COMPLIANCE

As of 12/04/2024, Complies with:

OTC	Yes
OTC Phase II	Yes
S.C.A.Q.M.D.	Yes
CARB	Yes
CARB SCM 2007	Yes
CARB SCM 2020	Yes
Canada	Yes
LEED® v4 & v4.1 Emissions	Yes
LEED® v4 & v4.1 V.O.C.	Yes
EPD-NSF® Certified	No
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	¼ 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.

Make sure product is completely agitated (mechanically or manually) before use.

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 bathtubs, sinks, showers, or countertops. Not of use on floors.

SPECIFICATIONS

Steel:
1 coat Pro Industrial Pro-Cryl Primer
or Kem Bond 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 Block Filler
or Loxon Acrylic Block Surfacer
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 & 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.

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SURFACE PREPARATION

WARNING! If you scrape, sand or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH-approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting: US - National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

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. Prime any bare steel within 8 hours or before flash rusting occurs. Primer required.

Aluminum - Remove all oil, grease, dirt, oxide and other foreign material per SSPC-SP1. Prime the area the same day as cleaning.

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 (10°C) 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 clean water. Apply the solution and scrub the mildewed area. Allow the solution to remain on the surface for 10 minutes. Rinse thoroughly with clean 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

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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: 4B

Pencil Hardness:
Method: ASTM D3363
Result: 2B

Dry Heat Resistance:
Method: ASTM D2485
Result: 250°F

Scrub Resistance:
Based on Method: ASTM D2486
Result: 330-575 cycles

Water Vapor Permeance (US):
Method: ASTM D1653
Result: 13.68 grains/(hr ft^2 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 - Good
10% Acetic Acid - Excellent
25% Sodium Hydroxide - Excellent
50% Sulfuric Acid - Excellent
5% Phosphoric Acid - Excellent
10% Hydrochloric Acid - Excellent
Methanol - Good
*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 clean 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 12/04/2024 K46W02151 09 28 FRC