

Pro Industrial™

Pre-Catalyzed Waterbased Urethane

B65–1100 Series


**SHERWIN
WILLIAMS.**

CHARACTERISTICS

Pro Industrial Pre-Cat Waterbased Urethane is a single component, high performance, interior or exterior water based acrylic polyurethane. It provides toughness, flexibility, abrasion resistance, and excellent UV resistance. Exterior performance comparable to two component water based urethanes.

Features:

- Excellent UV resistance
- Excellent gloss and color retention
- Easy application and cleanup
- Abrasion resistant
- Suitable for use in USDA inspected facilities

For use on properly prepared: Steel, Galvanized & Aluminum Concrete and Masonry, Drywall

Finish: 70° + units @ 60° Gloss

Colors: Most Colors

Recommended Spreading Rate per coat:

Wet mils: 6.0-12.0
Dry mils: 2.2-4.4
Coverage: 134-267 sq. ft. per gallon
Theoretical Coverage: 593 sq. ft. per gallon @ 1 mil dry
Approximate spreading rates are calculated on volume solids and do not include any application loss.

Apply paint at the recommended film thickness and spreading rate. Application of coating below minimum recommended spreading rate will adversely affect coating performance.

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

Drying Schedule @ 6.0 mils wet, @ 50% RH:
Drying and recoat times are temperature, humidity, and film thickness dependent.

		@77°F
To Touch:		1 Hour
To Recoat:	min	8 Hours
To Recoat:	max	30 Days
To Cure:		3 Days

Tinting with CCE Only:

Base	oz. per gallon	Strength
Extra White	0-4	SherColor
Deep Base	8-12	SherColor
Ultradeep Base	8-12	SherColor

Extra White B65W01121

(may vary by color)

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

77 grams per litre; 0.65 lbs. per gallon
As per 40 CFR 59.406

Volume Solids: 37 ±2%
Weight Solids: 47 ±2%
Weight per Gallon: 9.76 lbs
Flash Point: N/A
Vehicle Type: Acrylic Polyurethane
Shelf Life: 36 months, bases

COMPLIANCE

As of 03/12/2024, 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	No
LEED® v4 & v4.1 Emissions (CDPH V1.2 B65W01121)	Yes
LEED® v4 & v4.1 V.O.C.	Yes
EPD-NSF® Certified	No
MIR-Manufacturer Inventory	Yes
MPI®	No

APPLICATION

Temperature:
minimum 50°F / 10°C
maximum 120°F / 44.4°C

air, surface and material

At least 5°F / -15°C 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	1500-1800 p.s.i.
Hose	1/4 inch I.D.
Tip	.015-.019 inch
Filter	60 mesh

Reduction: As needed up to 5% by volume

Brush:	Nylon-polyester
Roller Cover:	3/8 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.

When using spray equipment, 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. Apply coating evenly while maintaining a wet edge to prevent lapping.

Overspray landing on hot surfaces may adhere to these surfaces. Immediately remove overspray from hot surfaces before adhesion occurs.

No painting should be done immediately after a rain or during foggy weather.

Check adhesion by applying a test strip to determine the readiness for painting.

SPECIFICATIONS

Steel:

1 coat Pro Industrial Pro-Cryl Primer
Or Pro Industrial Kem Bond HS Primer
2 coats Pro Industrial Pre-Cat Urethane

Aluminum & Galvanizing:

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

Concrete Block (CMU):

1 coat Pro Industrial Heavy Duty Block Filler
Or Loxon Acrylic Block Surfer
2 coats Pro Industrial Pre-Cat Urethane

Drywall:

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

Wood – Exterior:

1 coat Exterior Wood Primer
2 coats Pro Industrial Pre-Cat Urethane

The systems listed above are representative of the product's use, other systems may be appropriate. Other primers 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 the 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, Commercial Blast Cleaning per SSPC-SP6. Primer recommended 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.

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

Extra White B65W01121

System Tested: (unless otherwise indicated)

Substrate: Steel

Surface Preparation: SSPC-SP10

Finish: 1 coat Pro Industrial Pro-Cryl Primer @ 2.3 mils D.F.T.
2 coats Pro Industrial Pre-Cat Urethane @ 2.2 mils D.F.T. per coat

Abrasion Resistance:

Method: ASTM D4060, CS17 wheel,
1000 cycles, 500 g load
Result: 15.3 mg loss

Adhesion:

Method: ASTM D4541
Result: 1457 p.s.i.

Scrub Resistance:

Method: based on: ASTM D2486
Result: 4000 cycles, no shim

Dry Heat Resistance:

Method: ASTM D2485
Result: 250°F

Flexibility:

Method: ASTM D522, 1/8 inch mandrel
Result: Pass

Accelerated Weathering QUV:

Method: ASTM D4587, QUV-A, 3,000 hours
Result: Pass

Pencil Hardness:

Method: ASTM D3363
Result: HB

**Chemical Resistance Rating:
(1 hour direct exposure to dry film)**

10% Acetic Acid	Excellent
10% Sulfuric Acid	Excellent
Ethanol	Excellent
10% Sodium Hydroxide & MEK	Slight color change
Motor Oil 10W30	Excellent
Water	Excellent

Direct Impact Resistance:

Method: ASTM D2794
Result: greater than 176 inch lb.

WVP Perms (US):

Method: ASTM D1653, grains/(hr ft² in Hg)
Result: 26.00 perms

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.

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