

# Pro Industrial™ Acrolon™ 100

## Waterbased Urethane

B65-700 Series


**SHERWIN  
WILLIAMS®**

### CHARACTERISTICS

**Pro Industrial Waterbased Acrolon 100** is an advanced technology, less than 100 grams per litre V.O.C., waterbased, acrylic urethane. It provides performance properties comparable to premium quality solvent based urethanes. This is a high gloss, abrasion resistant urethane that has excellent weathering properties.

#### Features:

- Can be applied directly to water based and solvent based organic zinc rich primers
- Suitable for use in Canadian Food Processing facilities (B65W721, B65T724, B65R720, B65Y720 & B65V720): Non-Food contact areas.
- Suitable for use in USDA inspected facilities
- Clear Tint Base (B65T00724) can be used as clear coat

**Finish:** 80+ @60° High Gloss

**Color:** Many colors

#### Recommended Spreading Rate per coat:

Wet mils: 4.0-8.0

Dry mils: 1.8-3.6

Coverage: sq.ft. per gallon 200-400

**Theoretical Coverage:** 721

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 @ 5.0 mils wet, @ 50% RH:

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

	@55°F	@77°F	@120°F
<b>To touch:</b>	3 hrs.	1.5 hrs.	45 min.
<b>To handle</b>	12 hrs.	6 hrs.	2 hrs.
<b>Minimum recoat:</b>	16 hrs.	8 hrs.	2-4 hrs.
<b>Maximum recoat:</b> *3 months	3 months	3 months	3 months
<b>To cure</b>	14 days	10 days	2 days
<b>Pot Life</b>	2.5 hrs.	2 hrs.	45 min.
<b>Sweat-In-Time</b>	none required		

**Mix Ratio:** 2 components, 4:1 by volume

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

**Tinting part A with CCE:** Use the 100% tint strength formula pages. Five minutes minimum mixing on a mechanical shaker is required for complete mixing of color.

#### Extra White B65W00721/B65V00720

(may vary by color)

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

**As mixed 4:1 unreduced**

98 grams per litre; 0.82 lbs. per gallon

As per 40 CFR 59.406

**Volume Solids:** 45 ± 2%

**Weight Solids:** 52 ± 2%

**Weight per Gallon:** 9.54 lb

**Flash Point:** 105°F TCC

**Vehicle Type:** Acrylic urethane

**Shelf Life:** 24 months unopened

### COMPLIANCE

As of 05/18/2021, 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 (CDPH v1.2-B65W721/B65V720)	Yes
LEED® v4 & v4.1 V.O.C.	Yes
EPD-NSF® Certified	No
MIR-Manufacturer Inventory	No
MPI®	N.A.

### APPLICATION

#### Temperature:

minimum 55°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 compatible compliant reducer. Any reduction must be compatible with the existing environmental and application conditions. Reduction over 15% of material can affect film build, appearance, and adhesion.

**Reducer:** Water

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

**Airless Spray:** 30:1 pump

Pressure 2700-3000 p.s.i.

Hose 1/4 inch I.D.

Tip .013-.015 inch

Filter 60 mesh

**Reduction** As needed up to 15% by volume

**Brush** Nylon-polyester

**Roller Cover** 3/8 inch woven

**Reduction** As needed up to 15% by volume with water, 5-15% minimum reduction required for brush and roll

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 separate components thoroughly with low speed agitation before use. Make certain no pigment remains on the bottom of the can. Then combine 4 parts by volume of Part A with 1 part by volume of Part B. Mix thoroughly with low speed agitation. Reduce 5% - 15% by volume with water for brush and roll application. Re-stir before using. If reducer is used, add only after both components have been thoroughly mixed together. 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.

### SPECIFICATIONS

#### Steel:

1 coat Pro Industrial Pro-Cryl Primer  
or  
1 coat Kem Bond HS  
1-2 coats Pro Industrial Waterbased Acrolon 100

#### Steel:

1 coat Zinc-Clad IV Primer  
1-2 coats Pro Industrial Waterbased Acrolon 100

#### Steel:

1 coat Zinc-Clad IV Primer  
1 coat Macropoxy 646-100  
1-2 coats Pro Industrial Waterbased Acrolon 100

#### Aluminum and Galvanizing:

1 coat DTM Wash Primer  
1-2 coats Pro Industrial Waterbased Acrolon 100

#### Concrete Block (CMU):

1 coat Pro Industrial Heavy Duty Blockfiller  
1-2 coats Pro Industrial Waterbased Acrolon 100

#### Concrete (high performance):

1 coat Kem Cati-Coat HS Epoxy Filler-Sealer  
1-2 coats Pro Industrial Waterbased Acrolon 100

#### Concrete and Masonry Smooth:

1 coat Loxon Concrete and Masonry Primer  
1-2 coats Pro Industrial Waterbased Acrolon 100

#### Drywall:

1 coat ProMar 200 Zero V.O.C. Primer  
1-2 coats Pro Industrial Waterbased Acrolon 100

#### Pre-Finished Siding:(Baked-on finishes)

1 coat Bond-Plex Waterbased Acrylic  
1-2 coats Pro Industrial Waterbased Acrolon 100

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

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## Waterbased Urethane

### 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.**

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion. Recognize that any surface preparation short of total removal of the old coating may compromise the service length of the system.

**Iron & Steel** - Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1. Minimum surface preparation is Commercial Blast Cleaning per SSPC-SP6/NACE 3. For better performance, use Near White Blast Cleaning per SSPC-SP10/NACE 2. Blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (2 mils / 50 microns). Prime any bare steel the same day as it is cleaned or before flash rusting occurs.

**Aluminum** - Remove all oil, grease, dirt, oxide and other foreign material per SSPC-SP1. Primer required.

**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. Primer required.

**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.

**Concrete and Masonry** - For surface preparation, refer to SSPC-SP13/NACE 6, or ICRI No.310.2R, CSP 1-3. Surfaces should be thoroughly cleaned and dry. Concrete and mortar must be cured at least 28 days @ 75°F (24°C). Surface temperatures must be at least 55°F (12.8°C) before filling. Surface must be free of laitance, concrete dust, dirt, form release agents, moisture curing membranes, loose cement and hardeners. Fill bug holes, air pockets and other voids. Primer required.

**Pre-Finished Siding: (Fluorocarbon, Silicone Polyester, and Polyester Polymers)** Remove oil, grease, dirt, oxides, and other contaminants from the surface by cleaning per SSPC-SP1 or water blasting per NACE Standard RP-01-72 (caution: excessive blasting pressure may cause warping, use caution). Always check for compatibility of the previously painted surface with the new coating by applying a test patch of 2 - 3 square feet. Allow to dry thoroughly for 1 week before checking adhesion. Use recommended primer.

### SURFACE PREPARATION

**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 B65W00721/B65V00720

**System Tested:** (unless otherwise indicated)

**Substrate:** Steel

**Surface Preparation:** SSPC-SP10

**Finish:** 1 coat Kern Bond H.S. Primer @ 3.0 mils D.F.T.

1 coat Pro Industrial Waterbased Acrolon 100 @ 3.6 mils D.F.T.

**Dry Time:** 7 day ambient cure

**Abrasion Resistance:**

Method: ASTM D4060

Result: 28.9 mg loss

**Adhesion:**

Method: ASTM D4541

Result: 1365 p.s.i.

**Corrosion Weathering:** 1000 hours

Method: ASTM D5894

Result: Rating 8, per ASTM D714 for Blistering. Rating 10 per ASTM D1654 for corrosion

**Salt Fog Resistance:** 1000 hours

Method: ASTM B117

Result: Rating 10, per ASTM D714 for Blistering. Rating 10 per ASTM D1654 for corrosion

**Direct Impact Resistance:**

Method: ASTM D2794

Result: 136 inch lbs.

**Flexibility:**

Method: ASTM D522, 1/8 inch mandrel

Result: Pass

**Pencil Hardness:**

Method: ASTM D3363

Result: 6 H

**Moisture Condensation Resistance:** 1000 hrs

Method: ASTM D4585

Result: Rating 10, per ASTM D714 for Blistering. Rating 10 per ASTM D1654 for corrosion

**Chemical Resistance Rating:**

B65W00721/B65V00720

**(1 hour direct exposure to dry film incidental contact)**

5% Phosphoric Acid- Pass

10% Hydrochloric Acid- Pass

25% Sodium Hydroxide- Pass

50% Sulfuric Acid- Pass

Isopropyl Alcohol- Pass

Ammonia- Pass

Peridox RTU®- Pass

Chlorox® Dispatch®-Slight color change or gloss loss

Methanol- Pass

Mineral Spirits- Pass

Motor Oil- Pass

Vegetable Oil- Pass

**WVP Perms (US):**

Method: ASTM D1653 grains/(hr ft<sup>2</sup> in Hg)

Result: 10.32 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 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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