


**SHERWIN  
WILLIAMS.**

# Pro Industrial™ Acrolon™ 100

## Waterbased Urethane Eg-Shel

B65-420 Series (Part A), B65V00620 (Part B)

### CHARACTERISTICS

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

- Can be applied directly to water based and solvent based organic zinc rich primers
- Suitable for use in Canadian Food Processing facilities (B65W421, B65T424, B65V620): Non-Food contact areas.
- Easy application & cleanup
- Ultradeep Tint Base (B65T00424) can be used as a clear coat.
- Suitable for use in USDA inspected facilities

**Finish:** 25-40 units @ 60°  
**Color:** Most Colors

#### Recommended Spreading Rate per coat:

Wet mils: 4.0-8.0  
Dry mils: 1.8-3.5  
Coverage: 200-400 sq. ft. per gallon  
Theoretical Coverage: 706 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
To touch:	3 hrs.	1.5 hrs.	45 min.
To handle:	12 hrs.	6 hrs.	2 hrs.
Minimum recoat:	16 hrs.	8 hrs.	2-4 hrs.
Maximum recoat*:	3 months	3 months	3 months
To Cure:	14 days	10 days	2 days
Pot Life:	3 hrs.	2.5 hrs.	1 hour

Sweat-In-Time: not required  
**Mix Ratio:** 2 components, 6:1 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 B65W00421/B65V00620**  
(may vary by color)

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

**As mixed 6:1 unreduced**  
78 grams per litre; 0.65 lbs. per gallon  
As per 40 CFR 59.406

**Volume Solids:** 44 ±2%  
**Weight Solids:** 57 ±2%  
**Weight per Gallon:** 10.67 lbs  
**Flash Point:** 110°F PMCC  
**Vehicle Type:** Acrylic Urethane  
**Shelf Life:** 24 months, unopened

### COMPLIANCE

As of 02/10/2025, Complies with:

<b>OTC</b>	Yes
<b>OTC Phase II</b>	Yes
<b>S.C.A.Q.M.D.</b>	Yes
<b>CARB</b>	Yes
<b>CARB SCM 2007</b>	Yes
<b>CARB SCM 2020</b>	Yes
<b>Canada</b>	Yes
<b>LEED® v4 &amp; v4.1 Emissions</b>	
(CDPH v1.2-B65W421/B65V620)	Yes
<b>LEED® v4 &amp; v4.1 V.O.C.</b>	Yes
<b>EPD-NSF® Certified</b>	No
<b>MIR-Manufacturer Inventory</b>	No
<b>MPI®</b>	#254

### APPLICATION

**Temperature:**  
minimum 55°F / 13°C  
maximum 120°F / 49°C

air, surface, and material  
At least 5°F / -15°C above dew point  
85% maximum

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

**Airless Spray:**  
Pressure 2000 p.s.i.  
Hose ¼ 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 loss 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 6 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 equipment, use a 50% overlap with each pass of the gun to avoid holidays, bare areas, and pinholes. Apply coating evenly while maintaining a wet edge to prevent lapping. If necessary, cross spray at a right angle.

### SPECIFICATIONS

#### **Steel:**

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

#### **Steel:**

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

#### **Steel:**

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

#### **Aluminum & Galvanizing:**

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

#### **Concrete Block (CMU):**

1 coat Pro Industrial Heavy Duty Block Filler  
or Loxon® Acrylic Block Surfacer  
1-2 coats Pro Industrial Waterbased Acrolon 100

#### **Concrete (high performance):**

1 coat Kem-Cati-Coat® HS Epoxy Filler-Sealer  
or Cement-Plex® 875 WB Block Filler  
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  
2 coats Pro Industrial Waterbased Acrolon 100

#### **Drywall – Bare, Healthcare Cleanroom**

1 coat ProMar 200 Zero V.O.C. Primer  
2 coats Pro Industrial Water Based Catalyzed Epoxy  
1 coat Pro Industrial Waterbased Acrolon 100

#### **Drywall – Previously Coated, Healthcare Cleanroom**

1 coat Extreme Bond® Interior-Exterior Bonding Primer  
2 coats Pro Industrial Water Based Catalyzed Epoxy  
1 coat Pro Industrial Waterbased Acrolon 100

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

1 coat Pro Industrial 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.

# Pro Industrial™ Acrolon™ 100

## Waterbased Urethane Eg-Shel

### 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](http://www.epa.gov/lead).

**When cleaning the surface per SSPC-SP1, use only an emulsifying industrial detergent, followed by a clean 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 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. Primer required.

**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.

**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 temperature must be at least 55°F (13°C) before filling. Surface must be free of laitance, concrete dust, dirt and form release agents, moisture curing membranes, loose cement, and hardeners. Fill big 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 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 B65W00421/B65V00620  
**System Tested:** (unless otherwise indicated) **Steel**  
**Substrate:** **SSPC-SP10**  
**Surface Preparation:** **SSPC-SP10**  
**Finish:** 1 coat Pro Industrial Pro-Cryl Primer @ 3.0 mils D.F.T.  
1 coat Pro Industrial Waterbased Acrolon 100 @ 4.0 mils D.F.T.  
**Dry Time:** 7 day ambient cure

**Abrasion Resistance:**  
Method: ASTM D4060  
Result: 23.3 mg loss

**Adhesion:**  
Method: ASTM D4541  
Result: 1310 p.s.i.

**Corrosion Weathering:** 1000 Hours  
Method: ASTM D5894  
Result: Rating 10, 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

**Moisture Condensation Resistance:** 1000 Hours  
Method: ASTM D4585  
Result: Rating 8, per ASTM D714 for Blistering  
Rating 10, per ASTM D1654 for corrosion

**Direct Impact Resistance:**  
Method: ASTM D2794  
Result: 160 inch per pound

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

**Pencil Hardness:**  
Method: ASTM D3363  
Result: 6 H

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

**Water Vapor Permeance (US):**  
Method: ASTM D1653  
Result: 11.02 grains/(hr ft2 in Hg)

**Chemical Resistance Rating:**  
Extra White B65W00421/B65V00620  
(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  
Bleach Solution Pass  
Methanol Pass  
Mineral Spirits Pass  
Motor Oil Pass  
Vegetable Oil Pass  
Transmission Fluid Pass  
Salt Solution Pass

### 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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