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, B65R726, B65Y720 & B65Y720): Non-Food contact areas.
- Suitable for use in USDA inspected facilities
- Clear Tint Base (B65T00724) can be used as a 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

Drying Schedule @ 5.0 mils wet, @ 50% RH:
- Drying, and recoat times are temperature, humidity, and film thickness dependent.
- 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: 2.5 hrs. 2 hrs. 45 min.
- Sweat-In-Time: 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

APPLICATION

Effective Spreading Rate: 2700-3000 p.s.i. @77°F

Reduction: 5% - 15% by volume with water, 15% maximum reduction required for brush and roll

Airless Spray:
- 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

Relative humidity: 85% maximum

Air mix: 55°F - 120°F

Hose: 100-200 psi

Application: 1-2 coats Pro Industrial Waterbased Acrolon 100

Diane and Masonry Smooth:
1-2 coats Pro Industrial Heavy Duty Blockfiller
1-2 coats Pro Industrial Waterbased Acrolon

Concrete Block (CMU): 1-2 coats Pro Industrial Heavy Duty Blockfiller
1-2 coats Pro Industrial Waterbased Acrolon 100

Dewater:
1-2 coats Pro Mar 200 Zero V.O.C. Primer
1-2 coats Pro Industrial Waterbased Acrolon 100

Pre-Finished Siding (Baked-on finishes): 1-2 coats Pro Industrial Waterbased Acrylic

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

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

Aluminum and Galvanizing:
1 coat DTM Wash Primer
1-2 coats Pro Industrial Waterbased Acrolon 100

Concrete Block (CMU): 1 coat Kem Cati-Coat HS Epoxy Filler-Sealer
1-2 coats Pro Industrial Waterbased Acrolon 100

Concrete and Masonry Smooth:
1 coat Luxon Concrete and Masonry Primer
1-2 coats Pro Industrial Waterbased Acrolon 100

Drywall:
1-2 coats Pro Mar 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
1-2 coats Pro Industrial Waterbased Acrylic

As of 05/18/2021, Complies with:

OTC
OTC Phase II
S.C.A.Q.M.D.
CARB
CARB SCM 2007
CARB SCM 2020
Canada
LEED® v4 & v4.1 Emissions
LEED® v4 & v4.1 V.O.C.
EPD-NS
MIR-Manufacturer Inventory
MFP®

APPLICABILITY

Temperature:
- Minimum: 55°F
- Maximum: 120°F

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.

Reduction:
- 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

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. Thent 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. 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.

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.

Compliance:

As of 05/18/2021, Complies with:

OTC
OTC Phase II
S.C.A.Q.M.D.
CARB
CARB SCM 2007
CARB SCM 2020
Canada
LEED® v4 & v4.1 Emissions
LEED® v4 & v4.1 V.O.C.
EPD-NS
MIR-Manufacturer Inventory
MFP®

05/2021 www.sherwin-williams.com continued on back
Pro Industrial™ Acrolon 100
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 bySolvent 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 Luxon Acrylic Block Surface. The filler must be thoroughly dry before topcoating.

Concrete and Masonry - For surface preparation, refer to SSPC-SP13/NACE 6, or ICR 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

System Tested: (unless otherwise indicated)
Substrate: Steel
Surface Preparation: SSPC-SP10
Finish: 1 coat Kem 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

Abstraction Resistance:
Method: ASTM D4060
Result: 28.9 mg loss

Adhesion:
Method: ASTM D4541
Result: 1365 p.s.i.

Corrosion Weathering:
Method: ASTM D5894
Result: Rating 8, per ASTM D714 for Blistering. Rating 10 per ASTM D1654 for corrosion

Salt Fog Resistance:
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:
Method: B65W00721/B65V00720
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.

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative or visit www.paintdocs.com to obtain the most current version of the PDS and/or an SDS.