



Product Data Sheet

55W-J___ White High Performance 2K UTHANE® Topcoat

CHARACTERISTICS

Product Description: This product is a two-component, high solids, low VOC, acrylic polyurethane. It is designed for high performance protection with outstanding exterior gloss and color retention.

Suggested uses:

High performance topcoat for use over 45R— 2K Red Epoxy Primer for protection of exterior storage tanks.

Compatibility with other coatings.

Aexcel high solids polyurethane is compatible with most coating types in good condition. Testing should be performed to assure adhesion and compatibility in an inconspicuous place before work begins.

Wt. Solids Activated: 69.8 ± 2%

Vol. Solids Activated: 57.2 ± 2%

Wt./gl. Part A: 10.83 ± .2 lbs.

VOC: Part A: 3.82 lb./gl. 458 g/l

VOC: Activated system: 3.26 lb./gl. 391g/l

Flash Point: 77 °F.

Gloss @ 60°: 90.0 @ 3 mils DFT.

Coverage Rate:

916 sq. /ft. per gl. @ 1 mils DFT.

305 sq. /ft. per gl. @ 3 mils DFT.

183 sq. /ft. per gl. @ 5 mils DFT.

APPLICATION

Surface Preparation: Newly primed surface should be clean and dry. Previously painted surfaces should have all loose paint removed and edges feathered. Prime bare spots with 45R-___ 2K Red Epoxy Primer.

Activation: Thoroughly mix 6 parts **55W-J___** White HP Polyurethane with 1 part of 95C-F063 Activator. Mix each component

Reduction: No reduction required.

Potlife: 3 hours @ 77 °F. (Activated)

Equipment: Mix by hand or 2 component proportion pump

Cure time- hours: *77°F @ 50% RH - 3 mil drawdown.

Dry to Touch: 4 hrs.

Dry to Recoat: 4 hrs.

Dry to Handle: 8 hrs.

Pack / Ship: 24 hrs.

Full Cure: 7 Days

*Temperature, relative humidity, and film thickness will affect dry time.

SUGGESTED FILM BUILD:

6 mils (150 µm) wet

3 mils (75 µm) dry

Wash Thinner: Ketones are most effective. Do not use aliphatics or alcohols.

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Equipment: Spray application:

2001 BINKS

Fluid Nozzle- 63CSS

Air Cap- 63PR

Others may be used. Changes in pressure and tip size may be required.

Roll & Brush: ¼ - ½ inch Nap Roller cover. Keep roller wet. Roll in one direction, rewet, then cross roll.

Brush apply with china bristle brush. Do not cross brush to reduce lap marks.

Clean Up: After shutdown or before a long delay, PROMPT CLEAN UP OF ALL EQUIPMENT IS ESSENTIAL, IF EQUIPMENT DAMAGE IS TO BE AVOIDED. This applies to pots, lines, hoses and guns. Use MEK, Acetone, or Xylene wash thinners

Performance Properties: When applied over 45R-___High Solids 2K Red Epoxy Primer.

Adhesion: by tape test ASTM D 3359-90 Rating: 4B

Sag: ASTM D4400-889 8.0 mills

Salt Fog: ASTM B-117 1,000 hours

Creep No Scribe: Rating: 10 None

Blistering No Scribe: Rating: 10 None

Ratings: 0-10 =Very poor - 10 = Excellent

Humidity Resistance: ASTM D2247

1,000 hours No Rusting No Blistering

Gloss: ASTM D4587

8 hrs. UV @ 50° C, 4 hrs. condensation @ 40° C.

Initial gloss @ 60° = 95

3,000 hrs. QUV A gloss @ 60° = 92

CHEMICAL RESISTANCE: The following chemicals had no effect (24 hours watch glass)

10% Sulfuric Acid

10% Hydrochloric Acid

10% Acetic Acid

50% Sodium Hydroxide

30% Ammonium Hydroxide

Distilled Water

MEK

Toluene

Methanol

Isopropanol

Unleaded Gasoline

All polyurethane systems, whether single or multi-component, are sensitive to moisture and will gel or begin to cure if permitted to come into contact with humid air or water. This includes the exposure of the coating in open containers or contact with moisture in fluid and air lines. Air compressors should be equipped with moisture traps, driers, and filters to ensure that the coating does not "see" moist air. In this way, damage to equipment can be avoided.

PRECAUTIONS

Safe Handling: When this product has been combined with our urethane curing agent, aliphatic and/or aromatic polyisocyanates then are present, which give off harmful vapors of isocyanates (hazardous materials) when sprayed. Do not use if you have chronic (long-term) lung or breathing problems, or if you have ever had a reaction to isocyanates. Use only with adequate ventilation. Where overspray is present, a positive-pressure, air-supplied respirator (TC-19C NIOSH/MESA) is recommended. If not available, use a vapor/particulate respirator that respirator supplier recommends as effective for isocyanate vapors and mists, such as a NIOSH TC-23C type.

Refer to our Data Sheet "Safety in the Handling and Use of Uthanes," and to the Material Safety Data Sheet, available upon request.

First Aid: If affected by inhalation of vapor or spray mist, remove to fresh air. If breathing difficulty persists or occurs later, consult a physician and have label information available. In case of eye contact, flush immediately with plenty of water for 15 minutes; call a physician. In case of skin contact, wash thoroughly with soap and water.

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