

PRODUCT IDENTIFICATION

SOLARGARD® ACRYTHANE

1410700005P – 5 gallon pail

1410700001C – 1 gallon can

WATER-BASED ACRYLIC URETHANE PROTECTIVE ROOF PAINT

Description

SOLARGARD ACRYTHANE is a single component, water-based, acrylic urethane roof paint formulated to provide industrial performance with zero VOC, zero HAP, and no odor. SOLARGARD ACRYTHANE is a protective roof coating that can be directly applied to specified substrates.

TECHNICAL DATA

Pencil Hardness (ASTM D 3363)	2B
Conical Flexibility (ASTM D 522)	180° on 1/2" Mandrel
Cyclic Prohesion (ASTM D 5894, 2 cycles, 672 hours)	
Blistering	10 per ASTM D 714
Corrosion	10 per ASTM D 1654
Rusting	10 per ASTM D 610
Impact Resistance (ASTM D 2794)	100 lbs.
Gloss @ 60° (ASTM D 523)	40% - 50%
Accelerated Weathering	91%
(% gloss retention - ASTM D 4587)	
Crosshatch Adhesion	5A
(ASTM D 3359-87)	
Salt Spray Resistance	>800 hours
(ASTM D B117, CRS, 30 day cure)	
Hiding Power	Excellent
	1850 sq. ft./9 wet mils
Weight per Gallon	10.9 ± 0.2 lbs.
Solids by Weight	55% ± 1%
Solids by Volume	40% ± 1%
Viscosity	85-90 KUs
Recommended Dry Film Thickness	1-3 mils
Wet Film to Achieve DFT	2.5 - 7.5 mils
Practical Coverage	180 - 545 sq ft/gal
@ Recommended DFT	
Dry Time	30 minutes to touch
	2-4 hours to recoat
Flashpoint	>212° F
Clean Up	Soap and Water

COVERAGE

Porosity, texture of surface, and specified dry-film thickness will dictate coverage. Coverage rates are as follows:

1 gal./200 - 250 sq. ft. 6 -8 wet mils

*Do not exceed 8 wet mils in any one coat.

*Two coats may be required depending on surface and color options.

See SOLARGARD ACRYTHANE specifications for additional information.

Uses

SOLARGARD ACRYTHANE is designed for direct-to-metal application. Can be used for exterior applications on aluminum, galvanized steel, and steel, in addition to Republic's acrylic coatings line which includes Solargard Hy-Build, Solargard Ultra, and Solargard 6083.

Advantages

SOLARGARD ACRYTHANE provides an alternative to two component products due to ease of application and maximum performance. Ideal for low VOC and other areas where odor can pose a problem. Provides excellent corrosion, humidity, and UV resistance as well as a rapid drying time. Helps minimize the formation of salts or frosting on acrylic coatings.

Limitations

Application temperature shall be above 50°F. Protect from freezing. Not intended for use in areas subject to vehicular traffic or where water continuously ponds. Do not apply when rain is imminent.

Preparation

All surfaces are to be free of dirt, grease, oil, gravel, loose paint, loose rust, excess chalk, and other foreign matter, which could prevent proper adhesion. This is best accomplished using a high-pressure power wash of at least 2,000 psi. A surface cleaner shall be used to remove all grease or oily deposits. Smooth, hard, or glossy finishes should be scarified by sanding to create a surface profile. Allow surface to completely dry.

If metal panel finish is Kynar 500 or the roof/wall was previously coated, please contact the Republic Technical Department for surface preparation recommendations.



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SOLARGARD® ACRYTHANE

Application

Refer to application specifications for additional information.

Previously Coated: SOLARGARD ACRYTHANE can be applied to surfaces in sound and good condition, which were previously coated with SOLARGARD ULTRA, SOLARGARD HY-BUILD, or SOLARGARD 6083. SOLARGARD ACRYTHANE can be applied by brush, roller or spray gun to specified coverage rates.

Metal: Scrape, wire brush, power wash, or power tool clean to remove loose rust, scale, and deteriorated coatings. Abrasive blast to a minimum Commercial Grade for more severe exposures. Prime all rust using SOLARGARD METAL PRIMER.

Two coats of primer are required on abrasive blasted surfaces, and in some applications on welds. Apply two coats of SOLARGARD ACRYTHANE by brush, roller or spray gun to specified coverage rates.

Equipment Recommendation

For additional information, refer to SOLARGARD ACRYTHANE Specifications.

Brush: Use a good quality synthetic bristle brush.

Air-Atomized Spray:

Method	Fluid Tip	Fluid Delivery	Atomizing Pressure
Pressure	.055-.070	12-16 oz/min	40-60 psi
Siphon	.055-.070	12-16 oz/min	40-60 psi
HVLP	.043-.070	12-16 oz/min	10 psi at tip

*Air cap for highest pressure

Airless Spray:

Fluid Pressure	Fluid Tip	Filler Mesh
2000-3000 psi	0.013-0.017	100

Clean-Up: Soap and water immediately after use.

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The information provided on this data sheet is effective as of July 2008 and supersedes all previous data concerning this product and its application.

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Maintenance

It is recommended that the coating application be checked on a regular schedule with additional inspections after the system has been exposed to severe conditions. Recoating or small area touch up can be made at any time by following recommended application procedures.

Technical Services

Technical advice or service on suitability of material for specific application and end-use requirements is available from the manufacturer. Refer to label and Material Safety Data Sheet (MSDS) for precautionary information.



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