

ACRYLITHANE™ W/R

Water-Borne Acrylic Urethane Topcoat



Technical Data

PRODUCT DESCRIPTION

ACRYLITHANE™ W/R is a unique water-borne acrylic polyurethane coating formulated for excellent exterior durability and gloss retention. ACRYLITHANE™ W/R combines quick dry performance with a low VOC on new or existing equipment and facilities where appearance, durability, chemical and corrosion resistance is needed. ACRYLITHANE™ W/R principal use is a final coat against weather and water, as well as resistance to splash and spillage of acids, alkali and other corrosive chemicals.

FEATURES

- Low VOC
- Excellent color retention
- Solvent resistant
- Chemical resistant
- Excellent gloss retention
- Lead and Chromate free
- Fast dry time

PRODUCT DATA

Description	Results
Vehicle Type	Acrylic Urethane
Colors	White, available in a variety of colors.
Gloss	Full and Semi-Gloss
VOC (mixed)	100 g/L (0.83 lbs/gal) less water
Weight/Gallon	10.8 pounds
Solids by Weight (mixed)	53%
Solids by Volume (mixed)	40%
Viscosity	30" Zahn #2
Flash Point	N/A
Dry Heat Resistance	300°F (149°C)
Freight Classification	See MSDS
Packaging	Base (1 gal); 9990-001 (1 qt)

APPLICATION DATA

Description	Results
Application	Spray, Brush or Roll
Mix Ratio	4:1 by Volume
Catalyst	9990-001
Recommended Thickness	2.0 - 3.0 mils DFT
Dry Time @ 77°F, 50% RH	
Recoat	1 hour
Tack Free	6 hours
Handle	8 hours
Pot Life @75°F, 50% RH	
2X Viscosity	2 hours
Gel Time	5 hours
Coverage	634 sf/gal at 1 mil DFT
Thinner	0-15% tap water
Clean Up	Soapy water for wet paint. MEK for dried paint.

The technical specifications for this data sheet are based on product 4200-003 DOWELL White. For information on other colors in this series, consult the Material Safety Data Sheet for that product.

CURED FILM PERFORMANCE

Description	Test Method	Results
Pencil Hardness (Gouge)	ASTM D3363	H-2H
QUV, UVA-340 3,000 Hrs	ASTM D4587	98% gloss retention (4210-001)
Mandrel Flexibility	ASTM D522	Pass 1/4"
Salt Fog, 3,000 Hrs	ASTM B117	10; 1-2 mm scribe undercreep 1
MEK double-rubs		50; no effect

EQUIPMENT RECOMMENDATIONS

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results.

SPRAY APPLICATION (General): The following spray equipment has been found suitable and is available from manufacturers such as Binks, DeVilbiss and Graco.

AIR ATOMIZED SPRAY:

	Model	Air Cap	Fluid Tip	Fluid Delivery	Atomizing Pressure
Pressure	Binks #18	63 pb	66	20 oz/min	45 - 60 psi
Pressure	DeVilbiss MBC-510	704	fx	20 oz/min	45 - 60 psi

AIRLESS SPRAY:

Model	Pump Ratio	Fluid Tip	Fluid Pressure	Filter Mesh
Graco Bulldog	30:1	.011 - .013	1800 - 2200	100
Binks B 8D	35:1	.011 - .013	1800 - 2200	100

GENERAL SURFACE PREPARATION

All surfaces must be sound, dry, clean and free of oil, dirt, grease, wax, mildew, loose or flaking paint and other surface contaminants. Remove loose, peeling, flaking or scaling paint and rust by scraping, sanding or wire brush or blasting.

For best results, an SSPC-SP 5 (NACE No. 1) white metal blast is minimum for severe exposure. For moderately severe (non-immersion) exposures an SSPC-SP 6 (NACE No. 3) commercial blast can be used.

DIRECTIONS FOR USE

THINNING: Reduce with tap water 5-15% by volume (after mixing thoroughly with Catalyst) as required for application.

APPLICATION: Mix thoroughly before use. **(DO NOT SHAKE).** Add 1 quart of 9990-001 per 1 gallon unit of ACRYLITHANE™ W/R and mix thoroughly again. **Mechanical stirrer is recommended to facilitate incorporation**

of 9990-001 (Catalyst). Only apply when air and surface temperature are between 40° – 100°F (7° - 38°C) and when the surface temperature is at least 5 degrees (F) or 3 degrees (C) above the dew point. **ACRYLITHANE™ W/R must be applied over a suitable primer. Do not apply direct to metal.**

DRYING TIME: See Application Data for typical dry times. Low temperature, high humidity, poor ventilation and thick films will retard drying.

CLEAN UP: Clean up paint tools or spills immediately with tap water, carefully observing cautions on paint and thinner labels. Dried paint may be removed by scraping.

ENGINEERED SYSTEMS

SYSTEM - A

For maximum corrosion resistance and durability. Recommended for use in coastal and marine exposures above the splash zone over a sandblasted surface.

Primer: 3 dry mils of 3260-001 CHEM-O-Z™ W/R.

Intermediate Coat: 1-2 dry mils of CHEM-O-PON™ W/R Primer.

Topcoat: 2-3 dry mils of ACRYLITHANE™ W/R in the desired color for the finish coat.

Clearcoat: 1 dry mil of ACRYLITHANE™ W/R Clear (optional for ultimate gloss and durability).

SYSTEM - B

For maximum chemical resistance while affording excellent corrosion resistance and durability in non-salt atmospheres. Recommended for use in inland areas and for resistance to acid and alkali. Sandblasting is recommended.

Primer: 1-2 dry mils of CHEM-O-PON™ W/R Primer.

Topcoat: 2-3 dry mils of ACRYLITHANE™ W/R in the desired color for the finish coat.

Clearcoat: 1 dry mil of ACRYLITHANE™ W/R Clear (optional for ultimate gloss and durability).

HEALTH AND SAFETY

Read the Material Safety Data Sheet (MSDS) and container labels for detailed health and safety information. This product is intended for industrial use by properly trained professional applicators only.

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