



Technical Data

PRODUCT DESCRIPTION

ACRYLITHANE™ C-HS is a low VOC acrylic polyurethane coating formulated for excellent exterior durability and gloss retention. ACRYLITHANE™ C-HS combines quick dry performance with a manageable pot-life.

For use on new or existing equipment and facilities where appearance, durability, chemical and corrosion resistance is needed. ACRYLITHANE™ C-HS 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

- Excellent color and gloss retention
- Resistant to chemical splash/spillage
- Lead and Chromate free
- Fast dry
- Low V.O.C.
- High value

PRODUCT DATA

Description	Results
Vehicle Type	Acrylic Polyurethane
Colors	Available in a variety of colors.
Gloss	High Gloss and Semi-Gloss
V.O.C. (mixed)	331 g/l (2.76 lbs/gal)
Weight/Gallon	10.2 pounds
Solids by Weight (mixed)	67.96%
Solids by Volume (mixed)	53.53% (Theoretical)
Viscosity	15-20" / Zahn 3
Flash Point (white)	23°F
Dry Heat Resistance	250°F
Freight Classification	Flammable
Packaging	1 Gallon & 5 Gallons (mixed units)

APPLICATION DATA

Description	Results
Application	Spray, Brush or Roll
Mix Ratio	8:1 by Volume
Catalyst	99979
Recommended Thickness	1.5 - 2.0 mils DFT
Dry Time @ 77°F, 50% RH	Spray, Brush or Roll
No Accelerator	
Tack Free	5 hours
Handle	10 hours
Recoat	3 hours
With 1 fl oz/gal 99011	
Tack Free	2.5 hours
Handle	5 hours
Recoat	2.5 hours
With 2 fl oz/gal 99011	
Tack Free	2 hours
Handle	4 hours
Recoat	1.5 hours

Pot Life @75°F, 50% RH	
No Accelerator	
2X Viscosity	2 hours
With 1 fl oz/gal 99011	
2X Viscosity	1 hour
With 2 fl oz/gal 99011	
2X Viscosity	3/4 hour
Coverage	576 sf/gal at 1.5 mils DFT
Thinner	
Brush/Roll	2-4 fl oz/gal of 21099
Air Atomized Spray	Up to 10% 21092
	Up to 3% 21093
Airless Spray	Up to 10% 21092
	Up to 3% 21093
Clean Up	21092

The technical specifications for this data sheet are based on product 45010 White Tint Base. For information on other colors in this series, see the Color Table within this document and consult the Material Safety Data Sheet for that product.

CURED FILM PERFORMANCE

Description	Test Method	Results
Q-UV A 340 (1,300 hrs)	ASTM D4587	> 98% gloss retention (60°)
Salt Fog (4,300 hrs ¹)	ASTM B117	Few small (8-9 size) blisters along scribe. Slight rusting at scribe. No rust or blisters in field.

¹Salt Fog Testing performed on the following system over sandblasted hot rolled carbon steel:

39906 CHEM-O-Z™ Q.D. Zinc Rich Primer
 33511 CHEM-O-PON™ Q.D. Epoxy Primer
45614 ACRYLITHANE™ C-HS Gloss Medium Gray
 Total Dry Film Thickness: 10-11 Mils

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.

BRUSH & ROLLER (General): Multiple coats may be required to achieve desired appearance, hiding and recommended dry film thickness. Avoid excessive rebrushing or rerolling.

BRUSH: Use a solvent resistant bristle..

ROLLER: Use a 1/4" nap solvent resistant core.

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	.013 - .019	1800 - 2200	100
Binks B 8D	35:1	.013 - .019	1800 - 2200	100

AIR ASSISTED AIRLESS SPRAY:

Model	Pump Ratio	Fluid Tip	Fluid Pressure	Atomizing Pressure
Kremlin MVX A. A. Gun	10:1	.013 - .016	400 - 800 psi	10 - 15 psi

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 old paint, coatings, mill scale and rust by sandblasting. If sandblasting is not practical, clean surfaces with power tools, hand scraping and wire brushing. For automotive type appearance, sand all surfaces with 280 wet or dry sandpaper. Best results obtained by wet sanding.

DIRECTIONS FOR USE

TINTING: Use tint base and HS Colorant specified in the formula when tinting the desired custom color.

THINNING: This product has been formulated to be applied without the need of additional thinning. However, application with certain equipment and under various conditions may be enhanced by reduction with the thinners specified. Please note that additional reduction will increase VOC content of the mixed coating.

Note: Always know local VOC restrictions for coating applications in your area before thinning this product. Thinning recommendations meet Federal VOC restrictions for architectural coatings. This product and other referenced products may not meet VOC restrictions for your application and may not be available in your area. Carefully read and observe warning on thinner labels.

APPLICATION: Mix 8 parts ACRYLITHANE™ C-HS to 1 part 99979 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. For spray application, thoroughly mix and add 21102 ACRYLITHANE™ Fast Spray Reducer as required. When temperature is over 70°F, use 21092 ACRYLITHANE™ Medium Reducer for spray application. Add 21093 ACRYLITHANE™ Retarder (up to 3%) to reduce dry spray and orange peel, if required. For brush/roll applications, 21099 ACRYLITHANE™ Brush/Roll Retarder may be used at 2 - 4 fl oz/gal if needed.

POT LIFE: Pot life is approximately 2 hours after mixing. Mix only the amount of material that can be used in 2 hours. Pot life is decreased with an increase in temperature. Mixed material should be kept in as cool a place as possible. Flush mixed material from pot and lines immediately after use.

DRYING TIME: See Application Data for typical dry times. Low temperature, high humidity, poor ventilation and thick films will retard drying. Accelerator 99041 may be added at the rate of up to 0.5 fl oz per mixed gallon of C-HS to reduce the drying time.

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

ALTERNATE PRIMERS: Contact JONES-BLAIR® Company.

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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