

# ACRYLITHANE™ HS3

## Acrylic Urethane Catalyzed Coating



### Technical Data

#### PRODUCT DESCRIPTION

A high performance, two component coating for use where appearance, durability, color and gloss retention plus chemical and corrosion resistance are paramount. For use on automobiles, trucks, trailers, railway cars, service stations, bulk tanks or chemical (acid or caustic) trailers.

For best results, use one of the JONES-BLAIR™ engineered systems for a total coating system.

#### FEATURES

- Excellent color retention
- Solvent resistant
- Chemical resistant
- Excellent gloss retention
- Lead and Chromate free
- Ultra Low VOC

#### PRODUCT DATA

Description	Results
Vehicle Type .....	Acrylic Polyester Urethane
Colors .....	Available in a variety of colors.
Gloss .....	Full Gloss and Semi-Gloss
VOC (mixed).....	247 g/l (2.06 lbs/gal)
Weight/Gallon (mixed).....	11.2 pounds
Solids by Weight (mixed).....	79%
Solids by Volume (mixed).....	68.5% (theoretical)
Viscosity (mixed) .....	400 cps
Flash Point (white).....	82°F
Dry Heat Resistance .....	300°F (149°C)
Freight Classification .....	See MSDS
Packaging.....	1 Gallon Mixed Units

#### APPLICATION DATA

Description	Results
Application .....	Spray, Brush or Roll
Mix Ratio .....	3:1 by Volume
Catalyst .....	99951 or 99961
Recommended Thickness.....	1.5 - 3.0 mils DFT
Dry Time @ 77°F, 50% RH	
No Accelerator	Brush/Roll
Recoat .....	6 hours
Tack Free.....	8 hours
Handle .....	12 hours
With .5 fl oz/gal 99041	
Recoat .....	4 hours
Tack Free.....	7 hours
Handle .....	11 hours
Pot Life @75°F, 50% RH	
No Accelerator	
2X Viscosity.....	1.5 hours
Gel Time .....	4 hours
With .5 fl oz/gal 99041	
2X Viscosity.....	0.75 hours
Gel Time .....	2 hours
Coverage.....	732 sf/gal at 1.5 mils DFT

Thinner	
Spray .....	21092 up to 15%
	21093 up to 3%
Brush or Roll.....	Not Required
Clean Up .....	21092

The technical specifications for this data sheet are based on product 4500-040 White.

#### CURED FILM PERFORMANCE

Description	Test Method	Results
Q-UV A 340 (4,000 Hrs)	ASTM D4587	> 90% gloss retention (60°) color change DE < .5
Xenon Arc (1,000 Hrs) quartz borosilicate filters	ASTM G147-96	> 95% gloss retention (60°)
Exterior Exposure 45° South Dallas, Texas	ASTM D1014	> 90% gloss retention, 3 Years
24 Hour Chemical Resistance Exposure (No Effect)	ASTM 1308	DI Water, 10% H <sub>2</sub> SO <sub>4</sub> , 10% NaOH, 25% H <sub>3</sub> PO <sub>4</sub> , Xylene & Mineral Spirits
Impact Resistance	ASTM D2794	160 F & 160 R

#### 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: 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	.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 1) near white blast is minimum for severe exposure. For moderately severe (non-immersion) exposures an SSPC-SP-6 (NACE 3) commercial blast can be used.

## DIRECTIONS FOR USE

**TINTING:** May be tinted with HS tint colors only.

**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.

**PRIMERS:** Compatible primers are 33910 CHEM-O-Z™ II Organic Zinc Rich Epoxy, 39549 or 39025 or 39910 CHEM-O-PON™ Mastic, 3090 RUST-NOT™ Latex, 975JB Acrylic Latex and 3781 Block Filler.

**APPLICATION:** Mix thoroughly before use. Add 1 quart of 99951 or 99961 per ¾ gallon unit of HS3 then mix thoroughly again. Only apply when air and surface temperature are between 40° – 100°F (7° - 38°C) and when the surface temperature is at least 5°F or 3°C above the dew point.

**DRYING TIME:** 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 HS3 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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