

ACRYLITHANE™ HS2

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
- 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).....	328 g/l (2.73 lbs/gal)
Weight/Gallon (mixed).....	11.1 pounds
Solids by Weight (mixed).....	76%
Solids by Volume (mixed).....	63% (Theoretical)
Viscosity (mixed)	35" / Zahn 3
Flash Point (white).....	102°F
Dry Heat Resistance	300°F (149°C)
Freight Classification	See MSDS
Packaging.....	1 Gallon (mixed unit)

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	Spray Brush/Roll
Recoat	4 hours 6 hours
Tack Free.....	6 hours 8 hours
Handle	8 hours 12 hours
With .5 fl oz/gal 99041	
Recoat	3 hours 4 hours
Tack Free.....	4 hours 7 hours
Handle	6 hours 11 hours
Pot Life @75°F, 50% RH	
No Accelerator	
2X Viscosity	3 hours
Gel Time	12 hours
With .5 fl oz/gal 99041	
2X Viscosity	1.5 hours
Gel Time	3.5 hours

Coverage.....	670 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 45080 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°)
EMMAQUA 290 MJ/M ²	ASTM G90-98	> 95% gloss retention (60°)
Q-Trac 290 MJ/M ²	ASTM D4141	> 90% 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 ₂ SO ₄ , 10% NaOH, 25% H ₃ PO ₄ , 48% HF, 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 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

TINTING: May be tinted with HS tint colors only.

THINNING: See Application Data. National EPA, AIM and VOC compliance levels will not be exceeded with these levels of thinner.

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 thoroughly before use. Add 1 quart of 99951 or 99961 per ¾ gallon unit of HS2 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 degrees (F) or 3 degrees (C) above the dew point.

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 HS2 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.

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.

First coat Primer: 3 dry mils of 33910 CHEM-O-Z™ II Organic Zinc Rich Primer.

Second intermediate coat: 3-5 dry mils of 33010 (white) or 33514 (gray) or 33114 (coral) UREPRIME® HS2.

Topcoat: 3 dry mils of ACRYLITHANE™ HS2 in the desired color for the finish coat.

Clearcoat: 1 dry mil of ACRYLITHANE™ HS2 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.

First coat Primer: 3 dry mils of 33010 (white) or 33514 (gray) or 33114 (coral) UREPRIME® HS2.

Topcoat: 3 dry mils of ACRYLITHANE™ HS2 in the desired color for the finish coat.

Clearcoat: 1 dry mil of ACRYLITHANE™ HS2 Clear (optional for ultimate gloss and durability).

SYSTEM - C

Recommended for refurbishing existing equipment and structures that have a surface suitable for refinishing by sanding and spot cleanup with hand and power tools.

First coat Primer: 2 dry mils of 33010 (white) or 33514 (gray) or 33114 (coral) UREPRIME® HS2 (preferred) or 3 mils of 15077 White STANTEST™ Primer or 15632 Gray STANTEST™ Primer.

Topcoat: 2 dry mils of ACRYLITHANE™ HS2 in the desired color for the finish coat.

Clearcoat: 1 dry mil of ACRYLITHANE™ HS2 Clear (optional for ultimate gloss and durability).

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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