

ACRYLITHANE™ HS4

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.

ACRYLITHANE™ HS4 meets 100 g/L maximum VOC compliant coating requirements.

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) | 95 g/L (0.79 lbs/gal) |
| Weight/Gallon | 10.22 pounds |
| Solids by Weight (mixed) | 64.1% |
| Solids by Volume (mixed) | 53.3% (theoretical) |
| Viscosity | 12-15" #3 ZAHN |
| 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 | 4:1 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 | 566 sf/gal at 1.5 mils DFT |

| | |
|---------------|--------------------------------------|
| Thinner | |
| Spray | Exempt solvents i.e. t-Butyl Acetate |
| Brush or Roll | Not Required |
| Clean Up | 21092, MEK |

The technical specifications for this data sheet are based on product 4600-040 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 ₂ SO ₄ , 10% NaOH, 25% H ₃ PO ₄ , 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: 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 1 gallon unit of HS4 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 HS4 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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