

CHEM-O-GARD LOW VOC PRIMER

High Solids Epoxy Polyamide Coating



Technical Data

PRODUCT DESCRIPTION

A two-component, high solids, high film build epoxy polyamide maintenance coating designed for application over steel and concrete. Very low VOC and HAPS free coating offers excellent adhesion and corrosion resistance.

FEATURES

- High solids, very low VOC
- HAPS free
- Excellent corrosion resistance
- Excellent sag resistance
- Excellent adhesion
- Can be overcoated with wide range of topcoats
- High-performance general maintenance coating for new and old steel

PRODUCT DATA

Description	Results
Vehicle Type	Epoxy / Polyamide
Color	Gray
Gloss	20 - 30
VOC (mixed w/99990)	91 g/L (0.71 lbs/gal)
Weight/Gallon (mixed)	12.5 pounds
Solids by Weight (mixed)	82.87%
Solids by Volume (mixed)	77.66%
Viscosity (mixed)	3,000 cps
Flash Point	126°F Hardener, 133°F Resin
Dry Heat Resistance	250°F continuous, 350°F intermittent
Packaging	2 gallons unit, 10 gallons unit

APPLICATION DATA

Description	Results
Application	Conventional and Airless Spray, Brush or Roll
Mix Ratio	1:1 by Volume
Resin	33521
Hardener	99990
Recommended Thickness	6 - 8 mils/coat (dry)
Dry Time @ 77°F and 50% R.H.	
No Accelerator	Spray/Brush/Roll
Recoat	4 hours min., 3 months max.
Tack Free	2 hours
Handle	5 - 6 hours
With 3 fl oz/gal	
Recoat	3 hours min., 3 months max.
Tack Free	1.5 hours
Handle	4 - 5 hours
Pot Life @ 75°F, 50% R.H.	
No Accelerator	
2X Viscosity	3 hours
Gel Time	5 hours
With 3 fl oz/gal	
2X Viscosity	2 hours
Gel Time	3.5 hours
Coverage	1246 sf/gal at 1 mil DFT

Thinner

Airless Spray	21092 (up to 4 oz/gal)
Conventional Spray	21092 (up to 6 oz/gal)
Brush/Roll	Not required
Clean Up	Xylene, MEK, 21092 or 21064 thinner

The above product and application data for this technical data sheet are based on product 33521/99990.

CURED FILM PERFORMANCE

Description	Test Method	Results
Adhesion to Steel	ASTM D4541	1,300 psi
Hardness	ASTM D2240	60
Impact Resistance	ASTM D2794	12 in. lbs - reverse 50 in. lbs - direct
Corrosion Resistance 3,000 hours salt spray	ASTM B117	No face blistering
Condensation 10,000 hours	ASTM D4585	No face corrosion or face blistering
Tensile Strength	ASTM D638	4,083 psi
Tensile Elongation	ASTM D638	40%

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 good quality solvent resistant, natural or synthetic.

ROLLER: Use a good quality natural or synthetic 1/4" short-nap roller cover with phenolic 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 Head	Fluid Delivery	Atomizing Pressure
Binks 18	68 PB	68	20 oz/min	65 - 75 psi
DeVilbiss MBC-510	MB-4039-62HD	AV-650-AC	20 oz/min	65 - 75 psi

AIRLESS SPRAY:

Model	Pump Ratio	Fluid Tip	Fluid Pressure	Filter Mesh
Graco	30:1 or Larger	0.017 - 0.021	1,800 - 2,400 psi	60
Binks	30:1 or Larger	0.017 - 0.021	1,800 - 2,400 psi	60

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 by scraping, sanding or wire brush.

For good results, an SSPC-SP 5 (NACE No. 1) white metal

blast with a 3 - 4 mils profile or SSPC-SP 10 (NACE No. 2) near-white metal blast with a 2 - 4 mils dense, sharp anchor profile free of peening. For moderate exposure, an SSPC-SP 6 (NACE No. 3) commercial blast should be used.

DIRECTIONS FOR USE

TINTING: Do not tint.

THINNING:

- Brush or Roll - None required.
- Spray - Use 21092 up to 4 oz per gallon for airless spray and up to 6 oz per gallon for conventional spray, if local VOC regulations allow. A non VOC thinner such as Oxsol may be used to reduce product without adding VOC.

Note: Always know local VOC restrictions for coatings 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 thinner labels.

APPLICATION: Apply by spray, brush or roller. APPLY ONLY when air and surface temperatures are between 50 - 110°F and the surface temperature of the steel substrate is at least 5°F above dew point.

DRYING TIME: Under normal conditions, dries to touch in 4 - 6 hours. Recoat time is 4 hour minimum and 3 months maximum. Low temperature, high humidity, poor ventilation and thick films will retard drying time. Recoating time is highly dependent upon actual surface temperatures. Higher surface temperature will shorten the maximum recoat window. Surface temperature should be monitored, especially on heated surfaces.

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

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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