

CHEM-O-GARD DTS

High Solids Epoxy Polyamide Coating



Technical Data

PRODUCT DESCRIPTION

A two-component, high solids, high film build epoxy polyamide maintenance coating formulated for demanding industrial and marine applications. Low VOC, low HAPS Chem-O-Gard DTS offers excellent adhesion and corrosion resistance and direct to metal applications.

FEATURES

- High film build
- High solids, low VOC
- Low HAPS
- Ready to apply
- Low odor
- High gloss
- Excellent corrosion resistance
- Excellent chemical resistance
- Superior adhesion
- Excellent sag resistance
- Self priming
- Extended pot life

RECOMMENDED USES

- Exterior linings
- Railcars
- Piping
- Offshore
- Marine
- Bridges

PRODUCT DATA

Description	Results
Vehicle Type	Epoxy / Polyamide
Color	Available in a variety of colors
VOC (mixed w/99987)	< 200 g/L (1.66 lbs/gal)
HAPS	< 0.44 lbs/gal
Weight/Gallon	12.12 pounds
Solids by Weight (mixed)	88.43%
Solids by Volume (mixed)	79.67%
Viscosity (mixed)	2,500 - 3,500 cps
Dry Heat Resistance	200°F
Packaging	1 and 5 Gallons

APPLICATION DATA

Description	Results
Application	Conventional or Airless Spray, Brush or Roll
Mix Ratio	1:1 by Volume
Catalyst	99987
Recommended Thickness	6 - 8 mils/coat (dry) 7 - 9 mils/coat (wet)
Number of Coats	1 or 2 (Use to stripe coat on difficult to paint areas, such as welds, pits, edges, cutouts, brackets, etc.)

Theoretical Coverage	1,278 sf/gal at 1 mil DFT
Pot Life @ 75°F	4 hours
Dry Time @ 75°F and 65% R.H.	
Touch Dry	4 - 6.5 hours
Through Dry	10 - 12 hours
Recoat	4 - 10 hours
Max. Recoat	3 months

Cure to Service

55°F and 50% R.H.	14 days
77°F and 50% R.H.	7 days
120°F and 50% R.H.	3 days

Mixing

Power stir the base and hardener, then add hardener to the base and stir 5 - 10 minutes.

Thinner

21092 Thinner

Clean Up

21064 or 21092 Thinner, MEK or Xylene

The above product and application data for this technical data sheet are based on product 3360-003 Gray. 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
Adhesion to Steel	ASTM D4541	1,200 psi
Adhesion to Concrete w/Primer 7760/7761	ASTM D4541	570 psi
Hardness	ASTM D2240	70
Impact Resistance	ASTM D2794	12 in. lbs - reverse 40 in. lbs - direct
Corrosion Resistance 4,500 hours salt spray	ASTM B117	No face blistering
Gloss (60°)	ASTM D523	88 - 94

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	Needle	Fluid Delivery	Atomizing Pressure
Binks 18	68 PB	68	68	20 oz/min	65 - 75 psi
DeVilbiss MBC-510	MB-4039-62HD	AV-650-AC	MBC-496-C	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

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 or SSPC-SP 10 (NACE No. 2) near-white metal blast is recommended. For moderate exposure (non-immersion), an SSPC-SP 6 (NACE No. 3) commercial blast should be used.

DIRECTIONS FOR USE

TINTING: Do not tint.

THINNING:

- Brush or Roll - None needed.
- Spray - Thin with 21092 thinner; 3-10% if local VOC regulations allow. National EPA AIM VOC compliance will not be exceeded with these levels of thinner. A non VOC thinner such as Acetone (up to 5%) 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 44 - 100°F and the surface temperature is at least 5°F above the dew point.

DRYING TIME: Under normal conditions, dries to touch in 5.5 - 6.5 hours and to recoat in 10 hours. Low temperature, high humidity, poor ventilation and thick films will retard drying.

CLEAN UP: Clean up skin, clothing, paint tools or spills immediately with recommended thinner, carefully observing cautions on paint and thinner 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.

Color Table

Typical Properties. Not Specifications. *Values for Catalyzed Product.

Product	Color + Catalyst	Wt./Gal.	*Solids by Volume (%)	*Solids by Weight (%)	*VOC (g/l) 99987 Catalyst	*Gloss
3300-001	White + 99987	12.58	79.68	88.45	174	90
3310-001	Red + 99987	12.51	78.76	87.85	182	90
3360-001	Black + 99987	11.91	77.67	86.58	190	90
3360-003	Gray + 99987	12.57	79.67	88.43	174	90
3380-001	Buff + 99987	12.57	79.53	88.35	175	90

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