

DTM Polyurethane Enamel

Aliphatic Urethane

General Properties

A cost-effective, two-component modified aliphatic polyurethane coating available in either very high gloss or low sheen finishes designed for use where superior performance is required but cannot be achieved using conventional coatings. DTM Polyurethane can be applied directly to properly prepared steel and has been formulated with low odor solvents, making it ideal for shop use.

Recommended Uses

This product was designed to provide durability in an industrial environment. For use on industrial machinery and equipment, oil and gas process equipment, pipe racks, storage tank exteriors, drilling and service equipment and structural steel. Not recommended for immersion service or high corrosion areas.

Product Information

GENERIC TYPE	Modified Aliphatic Urethane
PIGMENT TYPE	Lightfast organic / inorganic pigments
COLOR	White, Black, Factory-Mixed and Custom Colors
BASES	83500 White, 83501 Deep Base, 83503 Clear Base, 83570 Low Sheen White, 83573 Low Sheen Clear Base
FINISH	High Gloss or Low Sheen
AVERAGE VOLUME SOLIDS	46%
AVERAGE WEIGHT SOLIDS	60%
RECOMMENDED FILM THICKNESS	Wet: 2.75 - 7.5 mils Dry: 1.25 - 3.5 mils See your Cloverdale Representative for project recommendations.
THEORETICAL COVERAGE	737.8 ft ² /gal @1 mil (25 microns) DFT 18.1 m ² /L @ 1 mil (25 microns) DFT Actual coverage may vary depending on substrate and application methods.

MIXED RATIO	9 parts 835 Series A: 1 part 83500 B
INDUCTION TIME	15 minutes
POT LIFE	3 hours
VISCOSITY MIXED	65 - 70 K.U.
TEMPERATURE RESISTANCE (DRY)	93°C (200°F) Continuous 120°C (250°F) Intermittent
V.O.C. MIXED	Less than 500 g/L (4.16 lbs/gal)
MAXIMUM THINNING TO OBTAIN V.O.C. OF 420 g/L (3.5 LBS/GAL)	N/A
THINNER	78011 Xylene
ACCELERATOR	N/A

Methods of Application

AIRLESS SPRAY	Speeflo Atlas 30:1 with tip sizes .013" - .015" or equivalent
H.V.L.P.	Binks Model Mach 1 94 x 97AP (pressure) or equivalent
CONVENTIONAL	Binks Model 95GUN 63CSS X 63PB (pressure) or equivalent
BRUSH / ROLLER	Brushing and rolling is limited to small areas or for touch up.

Drying Time - Temperature, Relative Humidity, and Film Thickness will affect dry and re-coat times.

Substrate Temperature	Touch Dry	Hard Dry	Minimum	Overcoat Interval	
				Maximum	Normal
25°C (77°F)	2 - 2.5 Hours	4 hours	2 hours	N/A	8 hours
Do not apply below 10°C (50°F)					

Recommended Primer

STEEL	Self Priming
CONCRETE	Not Recommended
GALVANIZED	83021 Clova Prime 21 or equivalent epoxy primer
ALUMINUM	83021 Clova Prime 21 or equivalent epoxy primer

Surface Preparation

Surfaces to be coated must be clean, dry and free of oil, grease or other contaminants. All mill scale and weld spatter must be removed for maximum performance. A minimum SSPC-SP3 Power Tool Cleaning is recommended but an SSPC-SP6 Commercial Blast Cleaning will provide improved product performance. Non ferrous metals must be washed and etched with 78100 Clova Clean prior to priming and topcoating.

Typical Resistance (Non-Immersion)

WEATHER	EXCELLENT	SALT WATER	EXCELLENT	ACIDS	POOR
MOISTURE	VERY GOOD	FRESH WATER	VERY GOOD	ALKALIS	FAIR
SOLVENTS	FAIR	ABRASION	VERY GOOD	OIL	VERY GOOD

Limitations

Not for severely corrosive environments. Can protect against mild chemicals and solvent exposures. Not for immersion service. Proper breathing attire must be worn during application.

Mixing Instructions

Mix nine parts 835 Series A with one part 83500 B until homogenous. Allow to react in can for 15 minutes (induction time). If thinning is necessary or required, proceed only after induction time has passed.

Safety Precautions

This product is for industrial use only. Contains isocyanates; proper breathing attire is necessary during application. Refer to Material Safety Data Sheet for proper health and safety information.

Storage and Handling

FLASH POINT	24°C (77°F) TCC
PRODUCT WEIGHT	9.41 lbs/gal (container extra)
STORAGE	Cool, dry, well ventilated area. See your Cloverdale Paint Representative.
PACKAGE SIZE	1 gallon kit: 3.40 L 835 Series A, 0.38 L 83500 Series B 5 gallon kit: 17.01 L 835 Series A, 1.89 L 83500 Series B

Some package sizes or colors may be by special order only. Please check with your Cloverdale Representative when ordering.

Warranty Disclaimer

Cloverdale Paint manufactures quality products. In the event that this product is defective or in any way unsuitable for the application for which it is sold, Cloverdale Paint Inc. will replace the product free of charge. The warranty provided by this data sheet is the only warranty or guarantee of quality made in respect of this product by Cloverdale Paint Inc. By purchasing this product the customer accepts this warranty in lieu of all others, and waives all claims to any other remedy arising from any warranty or guarantee of quality, whether such warranty or guarantee of quality was made expressly to the customer or implied by any applicable law.

Check for recent amendments to this data sheet at www.cloverdalepaint.com

**Cloverdale Paint Inc.**

6950 King George Boulevard, Surrey, British Columbia, Canada V3W 4Z1
 Web Site: www.cloverdalepaint.com Email: helpdesk@cloverdalepaint.com
 Phone: 604 596 6261 Fax: 604 597 2677