

DTM POLYURETHANE 4:1

Aliphatic Urethane

General Properties

836 Series is based on a tightly crosslinked interpenetrating polymer network of acrylic and polyester urethanes. It is a very low HAPs, high performance direct-to-metal two component, aliphatic urethane that provides superior gloss and color retention, excellent chemical resistance, outstanding abrasion resistance and a very high gloss (wet look) finish. 836 Series 4:1 DTM is a two component product with base 836xxA and converter 83ARMB supplied in separate containers.

Recommended Uses

For DTM application to tank exteriors, trailers, farm machinery, oilfield drilling and service equipment, industrial & process equipment, and structural steel. 836 Series products may also be used as a chemical resistant, gloss retentive finish over intermediate epoxy and zinc rich primer systems.

Product Information

GENERIC TYPE	Aliphatic Acrylic Urethane
PIGMENT TYPE	Lightfast Pigmentation
COLOR	83610 White, 83614 Black
BASES	NA
FINISH	Very High Gloss - Wet Look
AVERAGE VOLUME SOLIDS	61% (Mixed)
AVERAGE WEIGHT SOLIDS	72% (Mixed)
RECOMMENDED FILM THICKNESS	Wet: 4 - 6 mils Dry: 2 - 4 mils See your Cloverdale Representative for project recommendation.
THEORETICAL COVERAGE	978 ft ² /gal @ 1 mil (25 microns) DFT 24.0 m ² /L @ 1 mil (25 microns) DFT Actual coverage may vary depending on substrate and application methods.

MIX RATIO	4 parts 836xxA: 1 part 83ARMB
INDUCTION TIME	No Induction required
POT LIFE	1 hour at 24°C (75°F) (Less at higher temperatures)
VISCOSITY	55-65 K.U. for Part A Base
TEMPERATURE RESISTANCE (DRY)	93°C (200°F) Continuous 120°C (250°F) Intermittent
V.O.C. (MIXED)	Less than 320 g/L (2.65 lbs/gal)
MAXIMUM THINNING TO OBTAIN V.O.C. OF 420 g/L (3.5 LBS/GAL)	20%
THINNER	C-760-1 Slow Evaporating C-760-2 Fast Evaporating SP05434T0 Slow Evaporating; HAPs free SP3078T0 - Fast Evaporating; HAP's free
ACCELERATOR	A-66 or A-70

Methods of Application

AIRLESS SPRAY	Speeflo Atlas 30:1 with tip sizes .009" - .013" or equivalent
H.V.L.P	Binks Model Mach 1 92 x 95AP (pressure) or equivalent
CONVENTIONAL	Binks Model 95GUN 63BSS X 63PB (pressure) or equivalent
BRUSH / ROLLER	Brushing 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 1/4 hours	6 - 8 hours	15 min.	2 days	4 hours

Recommended Primer

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

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	EXCELLENT
MOISTURE	EXCELLENT	FRESH WATER	EXCELLENT	ALKALIS	VERY GOOD
SOLVENTS	VERY GOOD	ABRASION	EXCELLENT	OIL	EXCELLENT

Limitations

After 836 Series products have cured for more than 3 days, the surface will require sanding for adhesion purposes for subsequent coats. For best results apply when the substrate temperature is above 10°C (50°F), and at a minimum of 3°C (5°F) above the dew point. Coating should not proceed when the relative humidity is above 85%.

Mixing Instructions

Mix base A and curing agent B separately with good agitation. Add converter or curing agent B to base component and mix thoroughly until homogenous. If thinning is necessary or required, proceed only after recommended induction time has passed. Carefully maintain water traps in all air lines. Humid conditions can lead to condensation during the curing cycle, resulting in loss of gloss. Use of accelerator will shorten pot life. Refer to accelerator data sheet for recommended levels.

Safety Precautions

This product is for industrial use only. **Refer to Material Safety Data Sheet for proper health and safety information.**

Storage and Handling

FLASH POINT	N/A
PRODUCT WEIGHT	836 Series A - 1.231 Kg/Lt (container extra)
STORAGE	Cool, dry, secure location. See your Cloverdale Paint Representative.
PACKAGE SIZE	1 gallon kit: 3.02 L 83610A Series A, 0.76 L 83ARMB 5 gallon kit: 15.12 L 83610 A, 3.78 L 83ARMB

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.

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