



# **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.

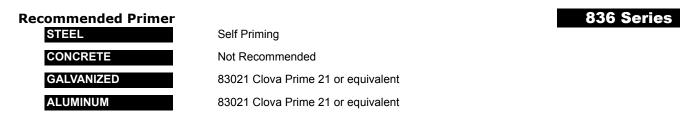
# **Recommended Uses**

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.

| GENERIC TYPE<br>Aliphatic Acrylic Urethane   | MIX RATIO<br>4 parts 836xxA: 1 part 83ARMB  |  |  |
|--|---|--|--|
|  |   |  |  |
| PIGMENT TYPE   |   |  |  |
| Lightfast Pigmentation   | No Induction required   |  |  |
| COLOR<br>83610 White, 83614 Black  | POT LIFE  |  |  |
| BASES  | 1 hour at 24°C (75°F) (Less at higher temperatures)   |  |  |
| NA   | 55-65 K.U. for Part A Base  |  |  |
| FINISH   | TEMPERATURE RESISTANCE (DRY)  |  |  |
| Very High Gloss - Wet Look   | 93°C (200°F) Continuous   |  |  |
|  | 120°C (250°F) Intermittent  |  |  |
| AVERAGE VOLUME SOLIDS  |   |  |  |
| 61% (Mixed)  | Less than 320 g/L (2.65 lbs/gal)  |  |  |
| AVERAGE WEIGHT SOLIDS  | MAXIMUM THINNING TO OBTAIN V.O.C.   |  |  |
| 72% (Mixed)  | OF 420 g/L (3.5 LBS/GAL)<br>20%   |  |  |
| RECOMMENDED FILM THICKNESS   | THINNER   |  |  |
| Wet: 4 - 6 mils  | C-760-1 Slow Evaporating  |  |  |
| Dry: 2 - 4 mils  | C-760-2 Fast Evaporating  |  |  |
| See your Cloverdale Representative for project<br>recommendation.                  | SP05434T0 Slow Evaporating; HAPs free<br>SP3078T0 - Fast Evaporating; HAP's free  |  |  |
| THEORETICAL COVERAGE   |   |  |  |
| 978 ft <sup>2</sup> /gal @1 mil (25 microns) DFT                                   | A-66 or A-70  |  |  |
| $24.0 \text{ m}^2/\text{L} \otimes 1 \text{ mil} (25 \text{ microns}) \text{ DFT}$ |   |  |  |
| Actual coverage may vary depending on substrate and                                |   |  |  |
| application methods.   |   |  |  |
| thods of Application   |   |  |  |
| ••   | Speeflo Atlas 30:1 with tip sizes .009"013" or equivalent   |  |  |
| AIRLESS SPRAY Speeflo Atlas 30:1 with tip size                                     | P. Construction of the second s |  |  |
| AIRLESS SPRAYSpeeflo Atlas 30:1 with tip sizH.V.L.PBinks Model Mach 1 92 x 95.     | •   |  |  |
| H.V.L.P Binks Model Mach 1 92 x 95   | •   |  |  |

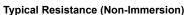
Drying Time - Temperature, Relative Humidity, and Film Thickness will affect dry and re-coat times.

| Substrate    | Truck Dav   | Hard Dry    | Overcoat Interval |         |         |
|--------------|-------------|-------------|-------------------|---------|---------|
| Temperature  | Touch Dry   |             | Minimum           | Maximum | Normal  |
| 25 °C (77°F) | 2 1/4 hours | 6 - 8 hours | 15 min.           | 2 days  | 4 hours |



## **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 peformance. 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.





#### 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<br>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 was made expressly to the customer or implied by any applicable law.



# **Cloverdale Paint Inc.**

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h40-0045v1

29-Apr-14