DAVIS FROST

"Innovative Coatings for Your Environment"®

PRODUCT DATA

Nexthane 9500 DTM Urethane

Description:

Nexthane DTM is a high build, direct to metal polyurethane to be applied as a single coat system for the exterior of railcars and oilfield equipment.

Features:

Direct to Metal
High gloss finish
VOC compliant
High Solids Formulation
Excellent build on edges
Single coat capability
Excellent wetting and adhesion properties
Good chemical resistance
4:1 Mixing Ratio
Fast Drying

Performance:

Salt Spray (ASTM B 117) 500 hours
Plane blistering or rusting: none

Physical Data (Typical):

Abrasion resistance (ASTM D 4060)
1 kg load/1000 cycles (ASTM D 4060) weight loss
CS 17 wheel 22 mg

Impact resistance (ASTM D 2794)
Direct impact 120 in-lbs.

Adhesion (ASTM D 3359) 5B

Dry Temperature resistance (non-immersion)
Continuous 250°F
Non-continuous 300°F

Theoretical volume solids of mixed material 66±2%
Theoretical coverage of mixed gallon (1 mil) 1082 sq. ft.
Note: May vary with color and/or gloss.

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Volatile Organic Content: Un-thinned 1.8 lbs./gal maximum

Chemical Resistance: Nexthane DTM is resistant to a wide range of chemicals in atmospheric exposures. The following is a guide to the proper selection.

Exposure	Splash & Spillage	Fumes
Acids	Good	Good
Alkaline	Excellent	Excellent
Solvents	Good	Excellent
Salt Water	Excellent	Excellent
Water	Excellent	Excellent

Film Thickness: Dry film thickness: 4 to 6 mils
Wet film thickness: 6 to 9 mils
Maximum 12 mils DFT in one coat applications

Primer/Substrates: Nexthane DTM is normally applied directly to steel. For extreme exposures, 63-D614 epoxy primer is recommended.

Colors: Nexthane DTM custom colors are available.

Shipping Data

Packaging unit	1 gal.	5 gal.
Base	0.8 gal.	4 gal.
Converter	0.2 gal.	1 gal.
Shipping weight (approx.)		
Package unit	10.9 lbs.	54.5 lbs.
	1gal.	5gal.

Flash Point: (Setaflash): Base 94°F
Converter 72°F

Shelf Life: 1 year for both the base and the converter when stored inside at 40°F to 100°F.

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Surface Preparation: Remove oil and grease from the surface with solvent or a commercial cleaner, which does not leave a residue according to SSPC-SP1. Steel: Abrasive blasting is preferred when possible as the performance is enhanced. For normal environments, abrasive blast to a Commercial finish per SSPC-SP 6 to obtain a 1 ½ to 3 mil profile. For immersion conditions, abrasive blast to a Near-white finish per SSPC-SP 10 to obtain 1 ½ to 3 mil profile. For touch up areas, which do not permit abrasive blasting, Hand Tool cleaning per SSPC-SP 2, Power Tool cleaning per SSPC-SP 3 or High Pressure Water cleaning per SSPC-SP12/NACE 5 WJ-4 is recommended.

Mixing: Power mix each component, then blend Converter into the Base and mix until uniform at the following ratio:

	1 Gal. Kit	5 Gal. Kit
Nexthane DTM Base	0.8 gallon	4 gallon
Converter	0.2 gallon	1 gallon

Thinning: Thinning is not required for most applications; however Nexthane DTM may be thinned up to 10% with Davis-Frost recommended reducers. MAK is recommended for overcoating inorganic zinc primers as well as for brush and roller applications of Nexthane DTM. Please contact Davis-Frost for other recommended thinners.

Pot Life: 1.5 hours at 75°F and less at higher temperatures.

Application Conditions:

	Material	Surface	Ambient
Minimum	50°F	50°F	50°F
Maximum	90°F	110°F	110°F

Note: Special thinning and application procedures are required outside these temperatures. Surface temperatures should be 5°F above dew point to prevent condensation.

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Application Equipment:

Conventional Spray: Industrial sprayers such as DeVilbiss MBC or JGA and Binks 18 or 62 having double regulated pressure pot, 3/8' I.D. minimum material hose and a .070" I.D. fluid tip and air cap are recommended.

Airless Spray: Sprayer such as Graco's Bulldog with a 30:1 ratio and a .017" to .021" tip is recommended. A 30 mesh inline filter is recommended.

Plural Component Airless Spray: Graco's XTreme Mix is the preferred plural component equipment.

Power Mixer: Use only explosion proof power mixers.

Brush or Roller: Use medium brush and short nap roller with solvent resistant fibers and core.

Drying Time:

The following minimum times are based on a 5 mil DFT and adequate air ventilation. Higher thickness and reduced air circulation increase drying times.

Surface Temp.	To Touch	To Handle	Final Cure
50°F	12 hrs.	32 hrs.	4 days
60°F	6 hrs.	16 hrs.	2 days
70°F	3 hrs.	8 hrs.	1 day
80°F	2 hrs.	5 hrs.	12 hrs.
90°F	1 hr.	3 hrs.	6 hrs.

Nexthane DTM can be applied in a wet-on-wet manner, which eliminates the dry time between coats when re-coating with itself.

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Maximum Re-coat: Nexthane DTM has a 5 day at ambient cure re-coat window. If past the 5 day recoat window when re-coating, it is imperative that the surface be scuffed prior to re-coating.

Cleanup: Cleanup with M.E.K.

The technical data furnished herein is accurate to the best of our knowledge and we guarantee our products to conform to Davis-Frost quality control. However, we can assume no liability for our products' coverage, performance or suitability for end use, since these factors are beyond our control. Neither can we assume liability for damages, injury or delays resulting from use of Davis-Frost materials. Liability, if any, is limited to replacement of defective materials or to a monetary value not to exceed the purchase price of materials. Technical data is subject to change.

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