

High Solids Novolac Epoxy Tank Lining

Features

- Coating under insulation
- Temperature resistance to 450°F
- Resists boiling water
- Excellent thermal shock resistance
- Semi-gloss finish
- VOC compliant
- High solids formulation
- Excellent build on edges
- Ambient temperature cure
- Blush resistant during cure
- Easy to apply

Typical Uses

GripLine 6700 is used as a tank lining, under insulation or maintenance coating for highly corrosive environments. Used to line steel tanks and to coat structural steel for offshore platforms, barges, refineries, petrochemical plants, power plants, railcars, pulp & paper mills, and other areas as recommended. When used under insulation GripLine 6700 offers outstanding resistance to wet & dry cycling at high (450°F) temperatures.

Physical Data

Abrasion resistance (ASTM D 4060) 1 kg load/1000 cycles (ASTM D 4060) CS 17 wheel	weight loss 60 mg
Impact resistance (ASTM D 2794) Direct impact	80 in-lbs.
Adhesion (ASTM D 4541)	3913 psi
Temperature resistance (non-immersion)* Continuous	425°F
Non-continuous	450°F

*Discoloration and loss of gloss may occur above 250°F

Theoretical volume solids of

mixed material	80%±1%
Theoretical coverage of mixed gallon (1 mil)	1283 sq. ft.
Volatile Organic Content	
Unthinned	0.8 lbs./gal.
Reducer 8 @ 1 pint/gal.	0.8 lbs./gal.
Reducer 3 @ 1 pint/gal.	1.6 Lbs./gal.
Reducer 7 @ 2 pints/gal	2.2 Lbs./gal

Resistance

GripLine 6700 is resistant to a wide range of chemicals in atmospheric and immersion exposures. The following is a guide to the proper selection.

<u>Exposure</u>	<u>Immersion</u>	<u>Splash & Spillage</u>	<u>Fumes</u>
Acidic	Excellent	Excellent	Excellent
Alkaline	Excellent	Excellent	Excellent
Solvents	Good	Excellent	Excellent
Salt water	Excellent	Excellent	Excellent
Water	Excellent	Excellent	Excellent

Film Thickness (per coat)

Dry film thickness: 8 to 10 mils
Wet film thickness: 10 to 12 mils
Theoretical coverage: 160 sq. ft. @ 8 mils DFT.

Substrates

GripLine 6700 is applied directly to steel as recommended.

Topcoats

GripLine 6700 is normally topcoated with itself and does not require additional topcoats.

Colors

GripLine 6700 is available in white and medium gray. Normally the white is used as the primer to provide color contrast with the steel surface and gray topcoat.

Shipping Data

Packaging unit	<u>1 gal.</u>	<u>5 gal.</u>
Base	0.89 gal.	4.45 gal.
Converter	0.11 gal	0.55 gal.
Shipping weight (approx.)		
Package unit	12 lbs.	60 lbs.
Reducer 8	<u>1 gal.</u>	<u>5 gal.</u>
Reducer 3	12 lbs.	60 lbs.
Reducer 7	9 lbs.	45 lbs.
Reducer 8	9 lbs.	45 lbs.

Flash Point: (Setaflash)

Base	0°F
Converter	Above 200°F
Reducer 3	78°F
Reducer 7	100°F
Reducer 8	109°F

Shelf Life: 3 years for both the base and the converter when stored inside at 40°F to 110°F.

GripLine 6700 Product Data Sheet

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: Immersion Service: Abrasive blast to a White Metal cleanliness according to SSPC-SP 5 to achieve 1.5 – 3 mil anchor profile.

Non-immersion Service: Abrasive blast to Near White Metal cleanliness according to SSPC-SP10 to achieve 1.5 – 3 mil anchor profile

Mixing

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

	<u>1 Gal. Kit</u>	<u>5 Gal. Kit</u>
GripLine 6700 Base	.89 gallon	4.45 gallon
GripLine 6700 Converter	.11 gallon	0.55 gallon

Thinning

GripLine 6700 may be thinned up to 1 pint/gal. with Reducer 8 for VOC requirements. For normal application Reducer 3 is recommended. For application to a hot surface Reducer 7 is recommended.

Pot Life

Four hours at 75° and less at higher temperatures. Pot-life ends by the loss of film build.

Applications Conditions

	<u>Material</u>	<u>Surface</u>	<u>Ambient</u>
Minimum	50°F	50°F	50°
Maximum	90°F	110°F	110°F

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

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.

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 10 mils DFT and adequate air ventilation. Higher thickness and reduced air circulation increase drying times.

<u>Surface Temperature</u>	<u>To Touch</u>	<u>To Recoat</u>	<u>Final Cure</u>
60°F	16 hrs.	48 hrs.	14 days
75°F	8 hrs.	24 hrs.	7 day
90°F	4 hrs.	12 hrs.	4 days

Maximum Recoat

<u>Surface Temperature</u>	<u>Days</u>
60°F	14
70°F	7
80°F	4
90°F	1

If the maximum recoat time is exceeded, the coating should be sweep blasted with fine aggregate to roughen the surface.

Cleanup

Cleanup with Reducer 8 or acetone.

6/11/10

CAUTION: Read and follow all caution statements on this product data sheet and on the Material Safety Data Sheet for this product.

CONTAINS FLAMMABLE SOLVENTS. Vapors are heavier than air and will accumulate. Extinguish all flames and prevent all sparks. All electrical equipment and installations should be made and grounded in accordance with the National Electrical Code. Where explosion hazards exist workers are required to use non-sparking tools and wear non-sparking shoes.

HEALTH: In confined spaces workers must wear fresh airline respirators.

WARRANTY: Any recommendation of U.S. Coatings contained herein, covering use, utilization, chemical or physical properties and other qualities of the products sold is believed reliable; however U.S. Coatings makes no warranty or representation with respect thereto. Use or application is at the discretion of the Buyer without liability or obligation whatsoever of U.S. Coatings.