

## Trowelable Flake Glass Vinyl Ester Lining

### Features

- FGD lining performance
- High temperature resistance
- Trowelable
- Excellent chemical resistance
- VOC compliant
- High solids formulation
- Ambient temperature cure
- Direct to metal application
- Very low permeability

### Typical Uses

GripLine 6310-T is formulated to withstand high temperatures, wet gas and chemical exposures found in wet FGD systems. This unique formulation is suitable for service up to 280°F in wet FGD service and will withstand dry service temperatures up to 400°F.

GripLine 6310-T is well suited for use in high temperature service, oxidizing acid service such as nitric acid or chromic, in acid bleach environments such as chlorine dioxide and acid/solvent solutions. GripLine 6310-T is well suited for lining of Stock Chests, Bleach Towers and FGD tanks or maintenance coating for highly corrosive environments. Use to line steel surfaces for offshore platforms, barges, refineries, petrochemical plants, power plants, railcars, pulp & paper mills and other areas as recommended.

### Typical Properties

Tensile Strength	ASTM D638	7,500 psi
Tensile elongation	ASTM D-638	0.3 – 0.5%
Bond strength (steel)	ASTM D-4541	1,600 – 1,800 psi
Bond strength (concrete)		Concrete cohesive failure
Flexural strength	ASTM D-790	14,500 psi
Water Vapor Transmission	ASTM E-96	
Permeability (perm-inch)		0.0004
Temperature resistance (non-immersion)		
Wet		280°F
Dry		400°F
Theoretical volume solids of mixed material		83% +/- 1%
Theoretical coverage of mixed gallon (1 mil)		1,331 sq. ft.
Volatile Organic Content – Unthinned		1.7 lbs./gal.

### Resistance

GripLine 6310-T 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 &amp; Spillage</u>	<u>Fumes</u>
Acidic	Excellent	Excellent	Excellent
Alkaline	Good	Excellent	Excellent
Solvents	Good	Excellent	Excellent
Salt water	Excellent	Excellent	Excellent
Water	Excellent	Excellent	Excellent

### Film Thickness (per coat)

Dry film thickness:	
Base Coat:	40 - 50 mils
Finish Coat:	30 mils
Wet film thickness:	
Base Coat:	50 - 60 mils
Finish Coat:	40 mils
Total dry film thickness:	70 - 80 mils
Theoretical coverage:	17 sq. ft @ 75 mils DFT

### Primer/Substrates

Steel: GripLine 6310-T is applied directly to properly prepared steel substrates

Concrete: GripLine 6300 Primer. Contact U.S. Coatings for specific technical recommendation.

### Topcoats

GripLine 6310-T is normally topcoated with itself and does not require additional topcoats.

### Colors

GripLine 6310-T is available in medium gray and off-white.

### Shipping Data

Packaging unit	<u>1 gal.</u>	<u>5 gal.</u>
Base	1 gallon	5 gallons.
Converter	2 fl oz	10 fl oz.
Shipping weight (approx.)		
Package unit	12 lbs.	60 lbs.
Flash Point: (Setaflash)		
Base	80°F	
Converter	100°F	

Shelf Life: 3 months for both the base and the converter when stored inside at 50°F to at 75°F.

# GripLine 6310-T 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:** Welds and weld splatter must be ground smooth. Grind all sharp projections and round all corners to a 1/8" radius.

Abrasive blast to a White Metal cleanliness according to SSC-SP5 to achieve a 3 – 5 mil sharp (angular) anchor profile.

**Concrete:** New concrete must cure a minimum of 28 days. Concrete surface must be dry. Test with moisture meter or plastic patch. Abrasive blast to remove any laitence or loose concrete and to achieve a roughened texture similar to medium grit sandpaper.

## Mixing

Power mix resin to a smooth, uniform consistency before combining in the following ratio:

	<u>1 Gal. Kit</u>	<u>5 Gal. Kit</u>
GripLine 6310-T Base	1 gallon	5 gallons
GripLine 6310-T Converter	2 ounces	10 ounces

## Thinning

Not recommended.

## Pot Life

45 to 60 minutes at 75°F; less at higher temperatures.

## Applications Conditions

	<u>Material</u>	<u>Surface</u>	<u>Ambient</u>
Minimum	70°F	50°F	50°
Maximum	80°F	90°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, which may dull the finish.

## Application Equipment

Use a masonry trowel or float to apply the material. Use styrene to dampen the trowel and to smooth the surface.

**Power Mixer:** Use only explosion proof power mixers.

## Drying Time

The following minimum times are based on 25 mils DFT and adequate air ventilation. Higher thickness and reduced air circulation increase drying times.

<u>Surface Temperature</u>	<u>Recoat Minimum</u>	<u>Recoat Maximum</u>	<u>Service Cure</u>
50°F	12 hrs.	2 days	72 hrs.
75°F	5 hrs.	1 day	48 hrs.

**Note:** If the maximum recoat time is exceeded, the coating should be mechanically abraded prior to application of additional lining material.

## Recoat

GripLine 6310 should cure firm to the touch at minimum before touch-up or recoating. If material has not been exposed to contaminants or cured beyond 72 hours at 75°F, no inter-coat prep is required. If surface has been exposed to contaminants or has cured beyond 72 hours or has been exposed to direct sunlight for over 4 hours then all contamination must be removed and the surface mechanically abraded before applying additional material.

## Cleanup

Cleanup with Reducer 3.

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**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.