

STACprime
STACfill
STACwrap
STACguard



Petrolatum Coating Products

Corrosion Protection for Pipeline Infrastructure

PTY
Enterprises Incorporated

510-414-9924 ph#
510-228-0414 fax
todd@ptyenterprises.com
www.PTYEnterprises.com



Petrolatum Coating Products: STAC Coating System Overview

Surface Tolerant Anti-Corrosion Products

The STAC coating system is a petrolatum-based, multi-layer barrier designed to isolate all metal surfaces. STAC systems were developed for long-term protection of metal surfaces in the most severe atmospheric, buried, and submerged environments. The STAC coating system is not a form of paint, but rather a foolproof, multi-purpose, hand-applied membrane wrap system. The petrolatum-based compound found in each of the components of the STAC coating system is chemically inert and contains no VOCs. The coating does not polymerize and harden like all conventional coatings, but remains thermoplastic and pliable throughout its service life. This non-hardening and non-cracking characteristic accommodates vibrations and movement of the substrate over a very wide temperature range. STAC coatings are applied over wire-brushed surfaces so no abrasive blasting is required.

The STAC system consists of:

STACprime: A brush-applied, paste-like product that displaces surface moisture, passivates surface oxides, fills surface imperfections and ensures adhesion between STACwrap and the substrate. It is non-drying, non-hardening, impervious to water, highly resistant to mineral acids, alkalis and salts, non-toxic and non-flammable.

STACfill: A putty-like compound used to improve the contour of irregular shaped items. It is used for profiling around valves, flanges, fittings, nuts, bolts and other irregular shapes prior to wrapping with STACwrap. It is a non-hardening, self-supporting, compound which accommodates vibration and mechanical stress. It is highly resistant to mineral acids, alkalis and salts, non-toxic and non-flammable.

STACwrap: A stitch bonded fabric saturated with a petrolatum compound for a long lasting outer barrier resulting in long term corrosion protection, sealing and waterproofing of atmospheric, buried and submerged metal surfaces. The high degree of conformality of STACwrap allows for easy application over irregular surface profiles. It is a non-woven, stitch-bonded, synthetic fabric carrier; fully saturated and coated with a neutral petrolatum compound blended with inert fillers and corrosion inhibitors. It is stable in composition and plasticity over a wide temperature range. It is a non-hardening, self-supporting compound which accommodates vibration and mechanical stress. It is highly resistant to mineral acids, alkalis and salts, non-toxic and non-flammable.

STACguard: A tough, conformable, pressure sensitive over wrap which provides increased mechanical strength and electrical resistance when applied over STACwrap for protection against backfill and soil stress. It is a plasticized self-adhesive PVC material that is highly impermeable to water, water vapor and air. It has excellent long term resistance to alkalis, acids, oil and bacteria.

STAC Coating System: STACprime



STACprime and STACprime UW SPECIFICATIONS

	STACprime		STACprime UW	
Application Temperature Range	23°F to 130°F	(-5°C to 55°C)	23°F to 130°F	(-5° to 55°C)
Service Temperature Range	-270°F to 180°F	(-168°C to 80°C)	-270°F to 180°F	(-168°C to 80°C)
Flash Point	320°F	(160°F)	356°F	(180°C)
Coverage	9.25 ft ² /lb	(2 to 5 m ² /ltr.)	3.70 ft ² lb	(1 to 3 m ² ltr)
Packaging	7 lbs, 44 lbs/bucket	(4 ltr., 20 ltr./bucket)	7 lb bucket	(4 ltr bucket)

STACprime Coating System

Part Number	Product	Description	Weight
5810000	STACprime	4 @ 7# Containers / per case	29.00
5810002	STACprime UW	4 @ 7# Containers / per case	29.00
5810064	STACprime White	4 @ 7# Containers / per case	29.00

STAC Coating System: STACfill and STACfill Lite



STACfill & STACfill Lite SPECIFICATIONS

	STACfill		STACfill Lite	
Density	.05 in ³ /lb	(1.38 g/cm ³)	.02 in ³ /lb	(0.61 g/cm ³)
Application Temperature	23°F to +165°F	(-5° to +55°C)	23°F to + 165°F	(-5° to +55°C)
Operation Temperature	-270°F to +180°F	(-168° to +80°C)	-270°F to + 180°F	(-168° to + 80°C)
Packaging	6.6 lb/block	(3 Kg/block)	2.9 lb/block	(1.3 Kg/block)

STACfill Coating System

Part Number	Product	Description	Weight
5810003	STACfill	8 @ 6.6# Blocks / per case	52.80
10001046	STACfill Lite	8 @ 2.9# Blocks / per case	23.20

STAC Coating System: STACwrap



STACwrap SPECIFICATIONS

Tensile Strength	45 lbf/in min	(200 N/25mm)
Water Vapor Permeability	0.006 Perms avg.	(ASTM E96-66 A)
Breakdown Voltage	16 Kv min with 55% overlap	
Mass	0.295 lb/ft ² avg	(1.44 kg/m ² avg)
Application Temperature Range	23°F to 165°F	(-5°C to 55°C)
Service Temperature Range	-270°F to 180°F	(-168°C to 80°C)
Thickness	>40 mils	(>1.0 mm avg)
Length	33 ft roll	(10 m roll)
Standard Widths	2" to 12"	(50 mm to 300 mm)
Packaging	72" x 33'/case	(18 m ² /case)

STACwrap Coating System

Part Number	Product	Description	Weight
5810004	STACwrap 2"	36 Rolls @ 33' each / per case	62.00
5810005	STACwrap 3"	24 Rolls @ 33' each / per case	61.00
5810006	STACwrap 4"	18 Rolls @ 33' each / per case	59.00
5810007	STACwrap 6"	12 Rolls @ 33' each / per case	56.00
5810008	STACwrap 8"	8 Rolls @ 33' each / per case	51.00
5810009	STACwrap 12"	6 Rolls @ 33' each / per case	63.00

STAC Coating Systems: STACguard



STACguard SPECIFICATIONS

Tensile Strength	40 lbf/in min	(200 N/25mm)
Elongation at Break	180%	
Breakdown Voltage	19 Kv single layer	(300g/25 mm)
Adhesion	10.5 oz/in width	(390 g/25 mm)
Application Temperature Range	23°F to 130°F	(-5°C to 55°C)
Service Temperature Range	-232°F to 180°F	(-147°C to 80°C)
Thickness	>10 mils	(>0.25 mm avg.)
Length	134 ft roll	(41 m roll)
Widths	2" to 12"	(25 mm to 300 mm roll)

STACguard Coating System

Part Number	Product	Description	Weight
call	STACguard 2"	32 Rolls @ 134' each / per case	27.50
5810031	STACguard 4"	16 Rolls @ 134' each / per case	37.30
5810032	STACguard 6"	10 Rolls @ 134' each / per case	25.70

STAC Coating System: Chemical Resistance Performance

STAC COATING SYSTEM				
Category	Chemical Concentration % by Volume		After 3 Months	After 1 Year
Acids Inorganic	Nitric Acid (HNO ₃)	10%	○	■
		50%	×	×
	Sulfuric Acid (H ₂ SO ₄)	10%	●	×
		25%	■	×
Chloric Acid (HClO ₃)	10%	○	□	
	CONC	●	×	
Phosphoric Acid (H ₃ PO ₃)	50%	●	×	
	90%	□	□	
Acids Organic	Acetic Acid (CH ₃ COOH)	10%	○	□
	Formic Acid (HCOOH)	10%	●	×
	Lactic Acid (C ₃ H ₆ O ₃)	10%	●	×
	Boric Acid (H ₃ BO ₃)	10%	□	□
	Tartaric Acid (C ₄ H ₆ O ₆)	10%	○	○
	Oxalic Acid (COOH) ₂	10%	○	○
	Citric Acid (C ₆ H ₈ O ₇)	10%	○	○
Alkalis	Ammonium (NH ₄)	28%	○	○
	Caustic Soda (NaOH) (Sodium Hydroxide)	5%	○	○
		20%	○	○
	Caustic Potash (KOH) (Potassium Hydroxide)	5%	○	○
20%		○	○	
Carbonic Soda	20%	○	○	
Salt, etc.	Sodium Chloride (NaCl)	20%	○	○
	Ammonium Sulfate (NH ₄) ₂ SO ₄	20%	○	○
	Hydrogen Peroxide (H ₂ O ₂)	20%	○	○

○ - No Damage □ - Slight Damage ■ - Damage ● - Great Damage × - Complete Destruction