

T700 PP Fiber Woven Tape

PP Fiber Woven Tape for pipeline

Cold applied, reinforced tape designed to protect metallic surfaces against corrosive forces. It is constituted by an adhesive (butyl rubber(BR) or butyl rubber modified asphalt (BC)), laminated onto a geotextile of woven polypropylene fabric and a disposable release sheet, which creates a strong bond with the pipe surface, protecting against moisture penetration.

Use

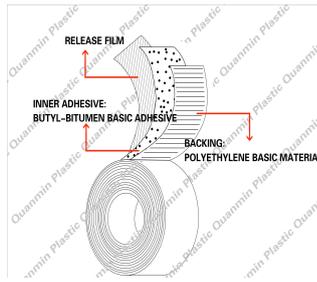
Protection against both mechanical impact and chemical and electrical corrosive forces. It is suitable for the corrosion protection of medium and large diameter pipelines.

Characteristics

- T700 backing properties of high strength, low “stretchability” (elongation), and high temperature resistance all contribute to resistance of soil stress.
- T700 PP fiber woven tape is a non-shielding coating. This means that if the coating disbonds, cathodic protection currents will not be shielded, and will be able to reach water underneath the coating.
- T700 PP fiber woven tape is resistant to curing and cracking, and enables the tape to adjust to expansion and contraction of the pipe due to temperature change.
- T700 PP fiber woven tape can be installed with hand or machine wrapped equipment. Fast and easy to apply, and can be backfilled immediately after coating. Thus reducing operation costs, application time.

Application

The surface shall be free of dust, paint, oils, fats, and all other strange elements. The entire prepared surface must be immediately primed to avoid the formation of oxide and must be coated within 24 hours. The pipelines are generally coated in spiral form manually or with machine avoiding the formation of wrinkles, air globes and with enough tension to be adapted to all the irregularities of the surface.



T700 PP Fiber Woven Tape

Test Data sheet

Physical Properties		Test Method	T760			T780	
Total Thickness	English	ASTM D1000	45mils	50mils	55mils	60mils	65mils
	Metric		1.15mm	1.27mm	1.40mm	1.50mm	1.65mm
Adhesive Thickness		ASTM D1000	0.85mm	0.97mm	1.10mm	0.90mm	1.05mm
Backing Thickness		ASTM D1000	0.30±0.05mm			0.60±0.05mm	
Tensile Strength		ASTM D1000	>600 N/cm (342.6 lbs/in)			>800 N/cm (456.8 lbs/in)	
Peel strength to primed steel at 23 °C		ASTM D1000	>80 N/cm (>731 oz/in)				
Peel strength to backing at 23 °C		ASTM D1000	>65 N/cm (>594 oz/in)				
Cathodic Disbondment		ASTM G 8	5.0mm (0.197 in.)				
Water Absorption Rate		ASTM D 570	<0.10% (<0.10%)				
Water Vapor Transmission Rate		ASTM F 1249	<0.15 g/m ² •24h (<0.01g/100sqin/24h)				
Dielectric Strength		ASTM D 149	25 KV (25 KV)				
Impact Resistance		ASTM G 14	23 N•m (204 in•lbs)				
Color		Black					
Tape width in inches		50mm(2"),101mm(4"),152mm(6"),228mm(9"),305mm(12"),457mm(18"),610mm(24"),750mm(29.5"),800mm(31.5")					
Tape roll length		15m(50ft), 25m(82ft),30m(98ft),50m(164ft),61m(200ft),100m(328ft),122m(400ft)					
Core size		38mm(1.5"),76mm(3") core of paper or hard plastic					
Application Temperature		-34 °C to +120 °C (-29 °F to 120 °F)					

