TECHNICAL DATA SHEET
ENVIRAWRAP HD

TESI CORROSION PROTECTION

ENVIRAWRAP is a physical passive corrosion protection system for pilings of inshore and offshore marine infrastructures, such as piers, docks, bridges and offshore platforms.
It consists of only one-piece installation, elastomeric reinforced wrap.

Construction

Multi-layer monocoque structure consisting of a double polymeric textile memory enhanced reinforcing element encapsulated within the polyurethane matrix and outer layer and polyester felt impregnated with thixotropic corrosion inhibiting gel.

Closure System

Heavy-duty PVC bolted flanges with AISI 316L stainless steel fasteners (Monel or Titanium alloys available upon request).

Technical Data

FABRIC MATERIAL	
Type	BX-2-OUF
Coating (Outer Layer and Matrix)	100% PTMEG Polyurethane, black color
Urethane Surface Finish (Max.)	350 R.M.S.
Base Fabric (Scrim reinforcement)	Nylon 6/6
Felt (Inner layer)	Polyester

FABRIC PHISICAL PROPERTY		TEST METHOD
Overall Thickness	0.246" ± .015" (6.25 mm)	
Overall Weight	90 oz/sq. yd. (± 3 oz)	ASTM D-751
Inner Felt Weight	19 oz/sq. yd. (0.65 g/m²)	ASTM D-751
Strip Tensile (MD/XMD)	1200/1200 lbs.	ASTM D-751
Elongation at Break	45%	ASTM D-751
Tongue Tear (MD/XMD)	200/200 lbs. (± 20 lbs.)	ASTM D-751
Impact Resistance (material remained intact)	175 ft/lbs. (24.2 m/kg)	ITI/1477
Taber Abrasion (1000 g. weight H-18 wheel)	>90,000 cycles (min.), Nylon reinforcing fabric exposure	ASTM 3389
Coating Adhesion	40 (± 5) lbs./inch	ASTM D-751
Accelerated Weathering	1000 hrs. excellent	ASTM D-4396
Low Temperature Bend	- 70° F	ASTM D-746
Ultraviolet Exposure (UVA 340 lamp, 4,000 hours)	No affect	ASTM G53

CORROSION INHIBITING GEL	
Type	Petrolatum-based, thixotropic, hydrophobic gel with active corrosion inhibitors
Color	Tan
Specific gravity	1.2
Operating Temp. Range	-40° C to 120° C (Enviragel S)
Application rate	approx. 0.8 lbs./ft² (4 kg/m²)

Availability

Standard supplied lengths are 1 m, 1.5 m, 2 m, 3 m and 4.5 m. Special lengths are available upon request. Wrap width is cut to size, depending by the pile outer diameter. Width can be up to 4.5 m.