TECHNICAL DATA SHEET
ENVIRAWRAP STD-19

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 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, Titanium or Inconel alloys available upon request).

Technical Data

FABRIC MATERIAL	
Type	BX 40UF
Coating (Outer Layer and Matrix)	100% PTMEG Polyurethane, black color
Urethane Surface Finish (Max.)	280 R.M.S.
Base Fabric (Scrim reinforcement)	Nylon 6/6
Felt (Inner layer)	Polyester

FABRIC PHISICAL PROPERTY		TEST METHOD
Overall Thickness	0.177 ” ± .010" (4.5 mm)	
Overall Weight	50 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)	500/500 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)	>70,000 cycles (min.), Nylon reinforcing fabric exposure	ASTM 3389
Coating Adhesion	35 (± 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	-20° C to 90° C (Enviragel P) ; -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.