



Corroseal

CORROSEAL F W P STEEL PILE SYSTEM

The Corroseal Jacket is a specially formulated polymer designed to withstand the harsh marine environment associated with wharf pile protection.

The unique preparation of the Corroseal Jacket is unaffected by salt water and most chemicals.

The Corroseal Jacket is tough, light weight, tear resistant and is easy to install by either a mechanical process or in-situ welding ensuring a complete membrane.

PRODUCT SPECIFICATIONS

Material: U.V. Stabilised polymer displaying excellent weather resistant and superior properties.

Colour: Black in colour for further protection from the elements.

Material Properties: Refer SeparateSheet

Product Listings

- Corroseal Jacket
- Corroseal Electro-Fusion Welding System
- DC Inverter Welding Power Source
- Plastic Stopper Bands (if required)



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Property	Test Method			
Thickness, mils	ASTM D751/1593/374	80	100	120
Density (g/cc)	ASTM D792/1505	0.944	0.944	0.944
Melt Flow Index (g/10 minutes)	ASTM D1238-E	51.0	51.0	51.0
Tensile Properties Either Direction	ASTM D638 Type IV Dumbbell 2 ipm			
Tensile Strength at Break (ibs/inch/width)	Gauge Length Per	400	500	600
Tensile Strength at Yeild (Ibs/inch, width)	N.S.F. Std 54	240	300	360
Elongation at Break (%)		800	800	800
Elongation at Yeild (%)		15	15	15
Tear Resistance Initiation (Ibs)	ASTM D1004	66	83	100
Low Temperature Brittleness F	ASTM D746 B	<-120	<-120	<-120
Dimensional Stability Each Direction (%)	ASTM D1204 (100 C, 1HR)	+1	+1	+1
Volatile Loss (max %)	ASTM D1203 Meth A	0.1	0.1	0.1
Ozone Resistance	ASTM D1149 (7 Days) (100ppm 104°F)	No Cracks	No Cracks	No Cracks
Environmental Stress Crack Resistance (hrs)	ASTM D1693 Cond B	>2000	>2000	>2000
Puncture Resistance (Ibs)	FTMS 101C Meth 2065	120	150	180
Water Absorption (% weight change)	ASTM D570	<0.01	<0.01	<0.01
Coef, Linear Thermal Expansion (10.4/ C)	ASTM D696	1.2	1.2	1.2
Moisture Vapour Transmission (g/m2day)	ASTM E96	<0.001	<0.001	<0.001
Oxidative Induction Time (minutes) Pure 02 at 1 Atmosphere	ASTM D3895 (200 c)	100	100	100
Tensile Impact Strength (ft-lbs/inchs)	ASTM D1822	381	381	381
Carbon Black Content (%)	ASTM D1603	2.5	2.5	2.5
Carbon Black Dispersion	ASTM D3015	A1	A1	A1



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CORROSEAL F W P SERIES

Application Procedures for Tubular and Hollow Segmented Steel Piling:-(Using M.E. Mastic Tape and Covering Plastic Jacket)

1.0 Surface Preparation

Using wire brushes, scrapers or water blasting equipment remove all loose rust marine growth and other foreign matter to achieve a firmly adhering surface to the area that is to be protected. Ensure that any firmly adhering foreign matter that is left in place does not have any sharp edges or irregular profiles that could cut or damage the covering tape.

2.0 Application of Primer

Following inspection of the surface preparation and recording the preparation in accordance with approved Quality Assurance Procedures apply Corroseal M.E. Petrolatum Primer using gloved hand or cloth.

Spread the primer using a circular motion to provide an even, thin film of primer over the entire prepared surface.

Check that any indentations, irregularities in the surface and any firmly adhering foreign material that is left in place is full covered with the primer.

3.0 Application of Mastic Filer

On hollow segmented piling fill the weld area and faces adjacent to welding lips with Corroseal M.E. Mastic or strip to prevent bridging of the tape.

Ensure that the Corroseal M.E. Mastic or strip is continued not less than 115mm above the top and below the bottom of the area that is to be wrapped in Corroseal M.E. Tape so as to avoid any bridging of the outer jacketing or tape.

Significant depressions, badly pitted areas and areas immediately adjacent to any firmly adhering foreign material that is left in place should be filled with M.E. Mastic or strip as required to avoid bridging of the tape.

4.0 Application of Tape

Upon completion of the surface preparation, priming and filling of the area to be protected commence wrapping the Corroseal Mastic Tape with a double turn to lock the tape in place then spirally apply the tape with a 50mm overlap to fully seal the taped area. The tape must be applied in an upward direction commencing at a point 500mm below RLO.00m (representing the bottom limit of the area to be protective coated) or as specified by the client.

Use sufficient tension to ensure constant adhesion to the pile and smooth the tape by hand to exclude air and water bubbles and seal the laps for quality or wrap and finish wrapping off with a double turn.

Upon completion of wrapping inspect the pile for overlap and record the pile number, date of application and the applicator's name.



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CORROSEAL F W P SERIES

Application Procedures for Steel Tubular and Hollow Segmented

5.0 Jacket Installation Utilising Tensioning Pile Method for Fusion.

- 5.1 After the pile has been inspected and passed, wrap the jacket around the pile allowing it to stop up against the soffit or marker as required, hold in position with plastic grips and ensure that the fusion core is accessible at both ends.
- 5.2 Position Part 1 of the FWP Marine stretch system by manoeuvring it into the plastic straps positioned on the upper section of the jacket and commence tightening the jacket without stretching
- 5.3 Position Marine Ply as a bearing bar over the core and up against the plastic straps on the overlap side and slip under the strapping of Part 1 of the FWP Marine stretch systems.
- 5.4 Temporarily hold bearing bar into position with PVC tape.
- 5.5 Position Part 2 of the FWP Marine stretch system, with dual ratchets at 600mm centres, following on from under Part 1 and moving down the pile.
- 5.6 Tighten the jacket without stretching and continue until the full length of the pile is tight.
- 5.7 Once the tightening process has been completed, commence stretching the full length of the jacket starting at the bottom of the jacket and continuing up the pile.
- 5.8 Once the stretching of the jacket has been approved, attach the fusion weld the core attached to the jacket.
- 5.9 After the fusion welding has been completed and allowed to stand for approximately (20) twenty minutes, remove all of the in-house Marine Stretch System from the pile and perform the testing of the fusion core by positioning a flat screwdriver under the overlap and up to the fusion weld and twist the screwdriver to 90° at approximated 500mm centres.
- 5.10 Wrap Plastic Stopperband around Pile hard up against Jacket where specified.
- 5.11 After the testing results have been accepted move to the next pile requiring fusion welding and commence procedure from 1 to 11.

Or in accordance with manufactures recommendations

Disclaimer:

This information is presented as accurate and correct in good faith, to assist the user in specification and application. No warranty is expressed or implied. No liability is assumed. Product specifications are subject to change without notice.