

FIBER-FORM PILE JACKET

Fiberglass Form for Encasement of Concrete or Epoxy Grout

Description

SeaShield™ Fiber-Form Pile Jacket is a custom fabricated fiberglass jacket used as a form to structurally restore and protect concrete, timber, and steel piles. The jackets are a high quality formulation of Fiberglass Reinforced Plastic (FRP) and polyester resins. They can be fabricated from 1' to 20' (0.3 m - 6.1 m) long sections and with a standard thickness of 1/8" or 3/16" (3.2 mm - 4.7 mm) (other thicknesses are available upon request). They can be removed or stay in place to protect and extend the life of the restored pile. The Fiber-Form Jackets are of the highest quality construction to meet Engineering Specifications to withstand hostile marine environments.

Features

- Outstanding abrasion resistance
- Easy to install
- High impact resistance
- UV resistant when gel-coated
- Non-corrosive
- Lightweight
- Manufactured to be translucent and or gel coated to a color
- Long maintenance-free service life

Application

Thoroughly clean the existing pile by waterblasting, sandblasting or other acceptable methods. The SeaShield™ Fiber-Form Jacket can be installed at the tidal zone area or positioned below the mudline. If a mudline repair is required, excavate the mud at the base of the pile and install a jacket. If tidal zone repair is required, install a work platform at the proper height using friction clamps secured to the pile. Install steel or other reinforcement with PVC pipe for proper spacing between the outside of the steel reinforcement and the inside the Fiber-Form Jacket as required by project specifications. Position the Fiber-Form Jacket around the pile and secure with a select strapping system every 18 inches (450 mm) or as required. Fill jacket at a constant slow rate of placement within allowable pressure ratings.

If installing SeaShield™ Fiber-Form Jacket with SeaShield™ Series 550 Epoxy Grout, please refer to the SeaShield™ Series 500 Specifications.

Fiber-Form Pile Jacket

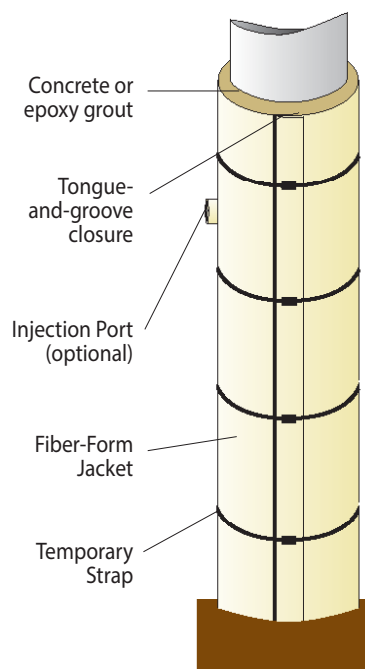
PROPERTY SPECIFICATIONS

PROPERTIES	TEST METHOD	VALUE
Minimum Ultimate Tensile Strength	ASTM D638	16,000 psi (110 MPa)
Minimum Ultimate Flexural Strength	ASTM D790	25,000 psi (172 MPa)
Flexural Modulus of Elasticity	ASTM D790	800,000 psi (5,516 MPa)
Barcol Hardness	ASTM D2583	40 min.
IZOD Impact (notched)	ASTM D256	20 ft-lbf/inch (0.4 J/m)
Minimum Water Absorption	ASTM D570	<1%
Relative Permittivity @ 60 Hz	ASTM D150	4.40
Ultra-Violet (UV) Accelerated Weathering Test 500 hours Twin Carbon ARC		Pass
Standard Colour	—	Translucent
Wall Thickness	—	1/8 in. (3 mm)*

*Other thicknesses (3/16" or 1/4" / 4.7 mm or 6.4 mm) are available on request.

APPLICATION

1. Thoroughly clean the existing pile by waterblasting, sandblasting or other acceptable methods. The SeaShield™ Fiber-Form Jacket can be installed at the tidal zone area or positioned below the mudline.
2. If a mudline repair is required, excavate the mud at the base of the pile and install a jacket. If tidal zone repair is required, install a work platform at the proper height using friction clamps secured to the pile.
3. Install steel or other reinforcement to the pile as required by project specifications.
4. Install stand-offs to provide proper annulus space between rebar and inside of Fiber-Form.
5. Position the Fiber-Form Jacket around the pile and secure with a select strapping system every 18 inches (450 mm) or as required.
6. Prepare bottom seal with SeaShield™ 550 Epoxy Grout or approved concrete and allow to set. Pumping shall not commence until bottom seal is fully cured.
7. Fill Fiber-Form with SeaShield™ 510 UW Grout or cementitious grout. Fill jacket at a constant slow rate of placement within allowable pressure ratings.



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