

# SeaShield Marine Systems



*Structurally repaired timber piles with rebar, concrete and translucent SeaShield Fiber-Form fiberglass pile jackets.*

## Fiber-Form Pile Jacket

**Fiberglass jacket to provide a form for encasement of concrete or epoxy grout**

**S**eaShield Fiber-Form Jacket is a custom fabricated fiberglass jacket to structurally restore and protect concrete, timber, and steel piles. The Fiber-Form Jacket is of the highest quality construction to meet Engineering Specifications to withstand hostile marine environments. The Fiber-Form Jacket can be removed or stay in place to protect and extend the life of the restored pile.

### Features

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





*Structurally repaired timber piles with rebar, concrete and translucent SeaShield Fiber-Form fiberglass jackets. The jackets can be manufactured to be translucent or gel coated to a color.*

## Materials

The SeaShield Fiber-Form Jacket is a high quality formulation of Fiberglass Reinforced Plastic (FRP) and polyester resins with UV inhibitors. The pile jackets can be fabricated from 1' to 20' long sections and with a thickness from 1/8" to 3/16" (other thicknesses are available upon request).

The Fiber-Form Jacket is provided with a vertical closure. Premier can install pumping ports at desired locations to attach concrete or epoxy grout hose. Non-corrosive standoffs (grout spacers) can be used inside the jacket to maintain proper spacing around the piling when using SeaShield 550 Epoxy Grout, SeaShield 510 UW Grout or other specified concrete grout.

For further details please refer to the technical data sheet for SeaShield Fiber-Form.



## Find Out More

Contact Premier Coatings Ltd. for a complete literature package or a no-cost on-site evaluation of your application:

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## 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' long sections and with a standard thickness of 1/8" or 3/16" (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 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

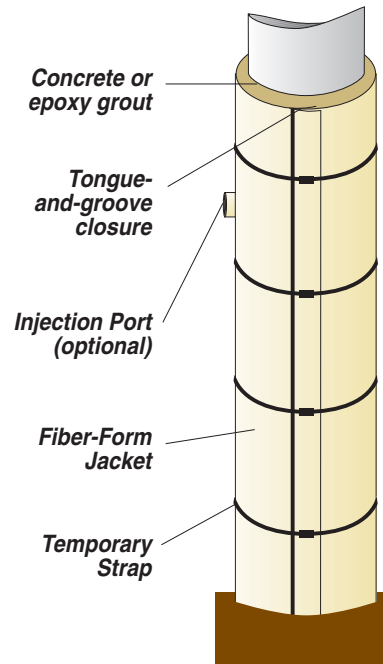
## PROPERTY SPECIFICATIONS

PROPERTIES	TEST METHOD	VALUE
Minimum Ultimate Tensile Strength	ASTM D638	16,000 psi
Minimum Ultimate Flexural Strength	ASTM D796	20,000 psi
Flexural Modulus of Elasticity	ASTM D790	800,000 psi
Barcol Hardness	ASTM D2583	30 min.
IZOD Impact (notched)	ASTM D256	20 ft-lbf/inch
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	ASTM 6153	Pass
Standard Color	—	Translucent
Wall Thickness	—	1/8 in.*

\*Other thicknesses (3/16" or 1/4") 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 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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