



Approved Quality
Management System
AS/NZS ISO 9001:2008
Lloyds Register-Certificate
No. MEL 0927759

Technical Data Sheet
SEASHIELD
FIBER-FORM JACKET

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
Composition:	The jackets are a high quality formulation of Fiberglass Reinforced Plastic (FRP) and polyester resins with UV inhibitors.
Characteristics:	<ul style="list-style-type: none"> • 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
Uses:	Protects piles from aggressive marine environment. May be used as part of the SeaShield Series 400 or SeaShield Series 500 system
Surface Preparation & Application:	<p>Thoroughly clean the existing pile by waterblasting, sandblasting or other acceptable methods.</p> <p>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.</p> <p>Install steel or other reinforcement with PVC pipe for proper spacing between the outside of the steel reinforcement and the inside the FiberForm Jacket as required by project specifications.</p> <p>Install stand-offs to provide proper annulus space between rebar and inside of Fiber-Form Jacket.</p> <p>Position the Fiber-Form Jacket around the pile and secure with a select strapping system every 450 mm or as required.</p> <p>Fill jacket with SeaShield 510 UW Grout or cementitious grout. Fill jacket at a constant slow rate of placement within allowable pressure ratings.</p> <p>Refer to SeaShield Series 400 or SeaShield 500 Application Instructions if using either of these systems.</p>
Storage:	Store in a cool, dry area away from direct heat and sunlight.
Available Sizes:	Fabricated from 1 m to 8 m long sections and with a standard thickness of 3 mm or 5 mm. other sizes available on request



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Physical Properties:	Test	Method	Units	Value
	Minimum ultimate tensile strength	ASTM D638	MPa	103
	Minimum ultimate flexural strength	ASTM D796	MPa	138
	Flexural modulus of elasticity	ASTM D790	MPa	5500
	Barcol hardness	ASTM D2583	min	35
	IZOD Impact (notched)	ASTM D256	ft-lbf/inch	20
	Minimum water absorption	ASTM D570	%	<1
	Relative permittivity @ 60 Hz	ASTM 150	-	4.40
	UV accelerated weathering test 500 hours twin carbon ARC	ASTM 6153	-	Pass
	Standard colour	-	-	Translucent