SEASHIELD™

LONG-TERM CORROSION CONTROL SYSTEMS FOR JETTY PILES AND MARINE INFRASTRUCTURE

SUITABLE FOR:
Jetties, piers, docks and wharfs
Port infrastructure
Marine structures
New construction and maintenance
Bridges
Complex shapes and profiles

Premier™

SeaShield™

THE MOST COMPREHENSIVE RANGE OF CORROSION CONTROL SYSTEMS FOR JETTY PILES AND MARINE INFRASTRUCTURE ON THE MARKET.

SeaShield™ comprise a range of systems developed to protect marine structures where corrosion is a major problem in splash zones, inter-tidal and subsea environments. These areas are extremely vulnerable due to the constantly changing mixture of air, temperature and chloride laden water, the perfect recipe for severe rusting.

Once corrosion has begun, rough seas containing sand, shingle and debris coupled with infestations of marine growth, speed up the deterioration process. If nothing is done the structures can soon become unsafe and extremely costly to repair.

SeaShield systems have a track record of over 50 years proven protection for steel, wood and concrete jetty piles situated in highly corrosive environments including sub-sea conditions.

Visit our website to keep up to date with the latest information on our SeaShield™ systems, including:

- Case Studies
- Technical Data Sheets
- Application Instructions
- Literature

www.premiercoatings.com

SURFACE PREPARATION

For over 40 years, Premier Coatings Ltd has been a world leader in providing innovative and permanent corrosion prevention solutions over hand power tool cleaned steel surfaces whilst reducing applied coating costs and meeting the most stringent health & safety requirements.

Our SeaShield systems require minimal surface preparation. Remove marine growth, loose rust, paint and foreign matter by hand and/or power tools. High pressure water jetting may also be used but is not essential.

SEASHIELD 100™ SYSTEM

The SeaShield 100™ System is comprised of a layer of Prempaste S105™ followed by a layer of SeaShield™ Marine Piling Tape. Outer mechanical protection is provided by an HDPE Jacket which is secured in place using a banding system.

The system can be applied both above and below water and offers robust protection to marine structures that are exposed to the corrosive conditions found in splash zone, inter-tidal and subsea environments.

MEDIUM DUTY PROTECTION

Suitable for:

- Steel piles (round or H-section in shape)

SEASHIELD 80™ SYSTEM

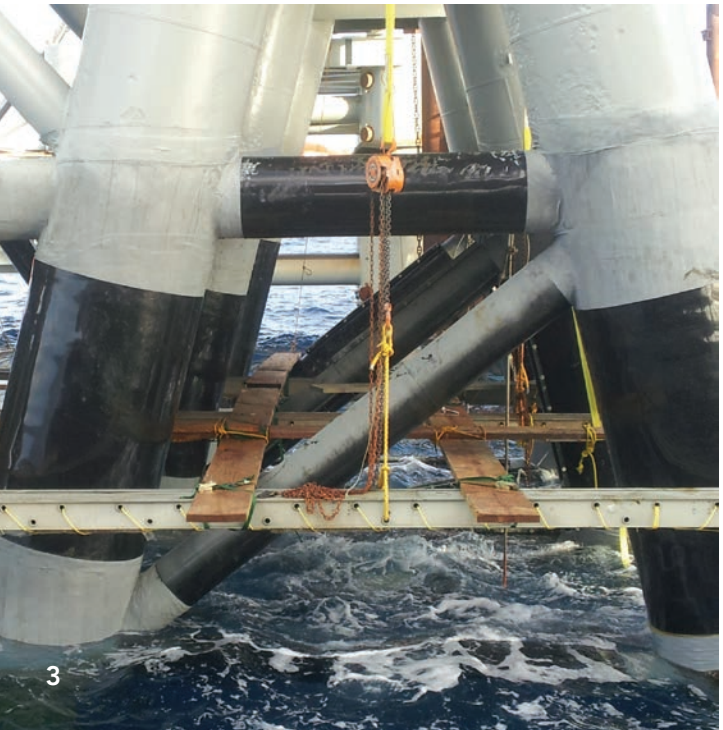
The SeaShield 80™ System is comprised of a layer of Prempaste S105™ followed by a layer of SeaShield™ Marine Piling Tape. Outer mechanical protection is provided by a layer of SeaShield Bitumen Outerwrap which comprises a polymer modified bitumen compound laminated to a tough PVC backing.

The compound layer is protected by an interleaving which is removed during application. The combination of PVC backing and polymer bitumen compound makes it resistant to damage by sharp objects (e.g. impact damage).

LIGHT DUTY PROTECTION. The system is frequently used in conjunction with other systems.

Suitable for:

- Cylindrical steel, concrete or timber piles



SEASHIELD 70™ SYSTEM

The SeaShield 70™ System is comprised of a layer of Prempaste S105™ followed by a layer of SeaShield™ Marine Piling Tape. Outer mechanical protection is provided by Premier™ Glass Outerwrap UV (GOW UV).

Premier GOW UV is a fibreglass cloth impregnated with a water activated resin which quickly cures to offer exceptional mechanical and impact strength.

MEDIUM DUTY PROTECTION

Suitable for:

- Steel piles (round or H-section in shape)

SEASHIELD 70/80™ SYSTEM

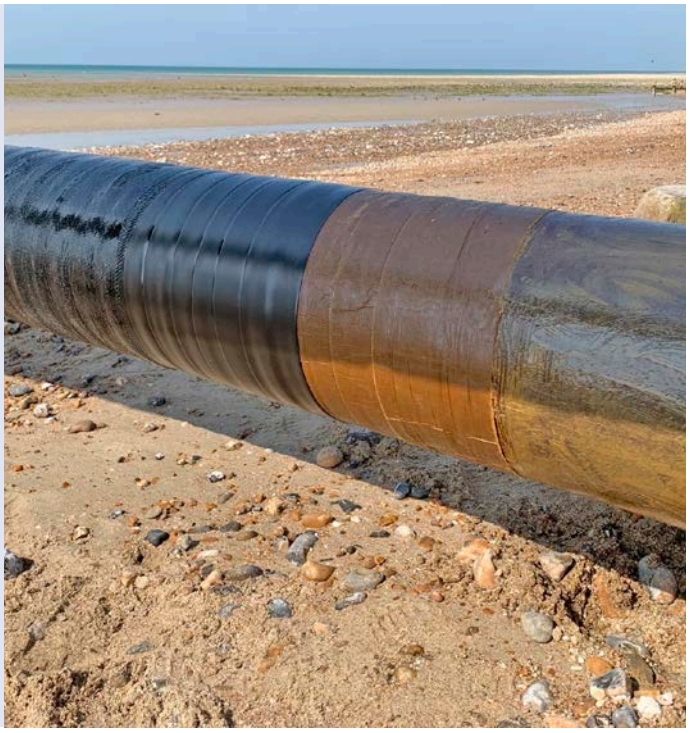
The SeaShield 70/80™ System combines the strengths of the SeaShield 70™ System and SeaShield 80™ System components to create an adaptable system for the effective protection of submerged or shoreline pipelines and complex marine structures, including beach outfalls/intakes and pipeline landfall.

The combined system comes in three variations depending on the level of protection required: A (medium duty), B (heavy duty), or C (extra heavy duty).

MULTIPLE LEVELS OF PROTECTION

Suitable for:

- Submerged pipelines, shoreline pipelines and complex marine structures.



SEASHIELD 500™ SYSTEM

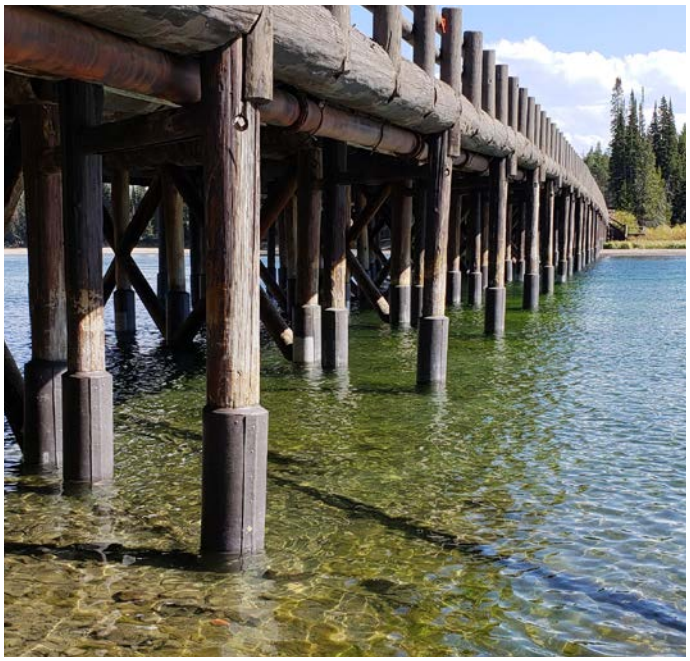
The SeaShield 500™ System is comprised of a custom-made fiberglass SeaShield 500™ Jacket that provides a permanent protective form-work which is filled with water-insensitive SeaShield 550™ Epoxy Grout to protect damaged piles.

The jacket is provided with a vertical tongue and groove closure and is supplied to a project specific thickness. Non-corrosive standoffs can be supplied to maintain the correct spacing of the jacket around the pile, ensuring the correct thickness of epoxy grout in the completed system. This grout can displace existing water and can be easily pumped, tremied or poured into the jacket even while it is submerged in water.

VERY HEAVY DUTY PROTECTION

Suitable for:

- Concrete and timber piles (variable shapes)



SEASHIELD FX-70™ SYSTEM

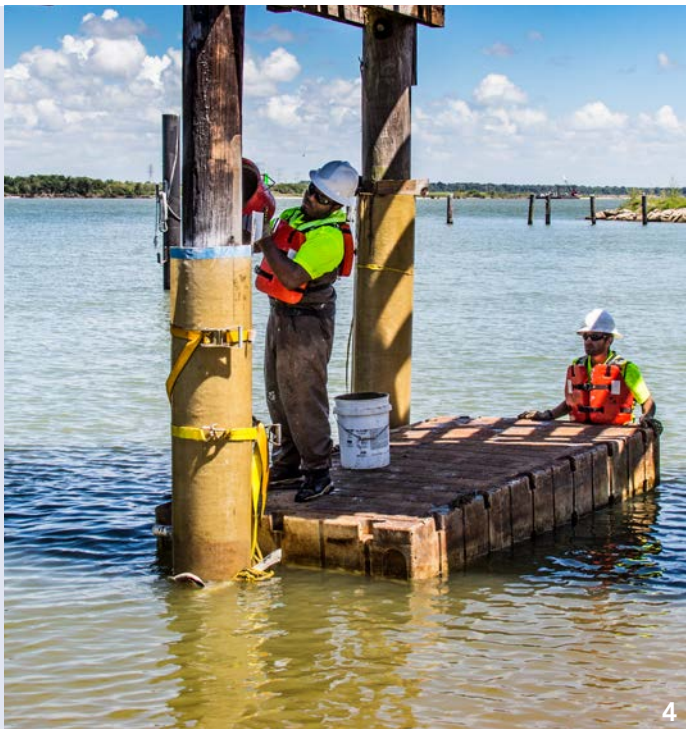
The SeaShield FX-70™ System is comprised of a custom-made fiberglass jacket that provides a permanent protective form-work which is filled with water-insensitive cementitious and epoxy grouts to protect damaged piles.

By eliminating the need to dewater the site or build cofferdams, the SeaShield FX-70 System drastically reduces the overall expense and loss-of-use cost as the structure can generally remain in service while the repair is executed.

VERY HEAVY DUTY PROTECTION

Suitable for:

- Concrete and timber piles (variable shapes)



SEASHIELD 2000FD™ SYSTEM

The SeaShield 2000FD™ System is an extremely popular and time-proven system, which can be applied both above and below water, and offers robust protection to marine structures that are exposed to the corrosive conditions found in splash zone, inter-tidal and subsea environments.

The SeaShield 2000FD System comprises a layer of Prempaste S105™ followed by a layer of SeaShield™ Marine Piling Tape and an outer HDPE jacket.

For inspection purposes the patented SeaShield Inspection Port™ allows for rapid inspection of the substrate without requiring removal of the entire system. The ports can be added to the SeaShield 2000FD System at strategic points around the structure to allow easy inspection of the substrate without requiring removal of the complete system. This reduces the time and cost for inspections.

HEAVY DUTY PROTECTION

Suitable for:

- Steel piles (round, square, hexagonal, octagonal or H-section in shape)

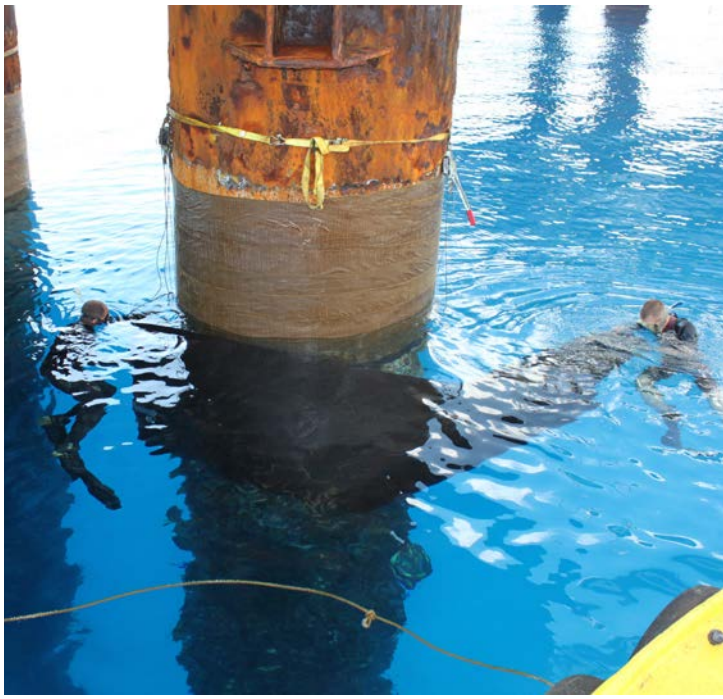
PILE INSPECTION PORT

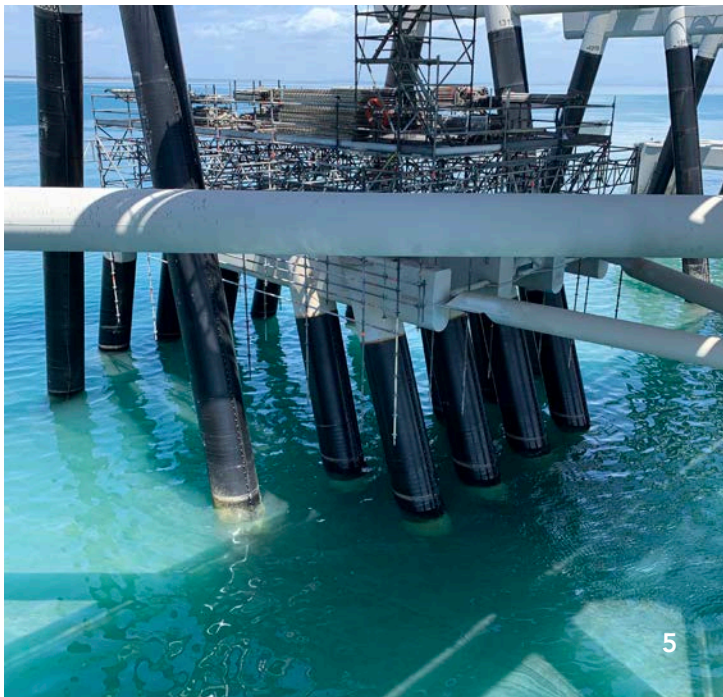
Patented* SeaShield Inspection Ports can be installed in our SeaShield 2000FD System jackets to allow for easy monitoring of the pile surface.

*Europe:
including the United Kingdom (2965062), Turkey (2965062), and Germany (602014037777.7)

*Australia: (2014224433)

*Thailand: (101962)





SeaShield™

SELECTION GUIDE

NOTE: These SeaShield™ system recommendations for corresponding pile and pile exposure conditions are indicative only. Please contact your local representative for specific system recommendations suitable for your individual project needs.

STEEL PILE

PILE CONDITION	PILE EXPOSURE CONDITIONS	SEASHIELD 70	SEASHIELD 80	SEASHIELD 70/80	SEASHIELD 100	SEASHIELD 2000FD	SEASHIELD 500	SEASHIELD FX-70
Relatively Good / New Consistent Diameter	Exposed Location	Not typically recommended	Not typically recommended	Not typically recommended	5-15 year service life	10-15 year service life	10-15 year service life	Not typically recommended
	Sheltered Location	Not typically recommended	5-15 year service life	Not typically recommended	10-15 year service life	10-15 year service life	10-15 year service life	Not typically recommended
Relatively Bad Variable Diameter Possible Repairs	Exposed Location	5-15 year service life	Not typically recommended	10-15 year service life	Not typically recommended	Not typically recommended	10-15 year service life	Not typically recommended
	Sheltered Location	10-15 year service life	5-15 year service life	10-15 year service life	Not typically recommended	Not typically recommended	10-15 year service life	Not typically recommended

CONCRETE PILE

PILE CONDITION	PILE EXPOSURE CONDITIONS	SEASHIELD 70	SEASHIELD 80	SEASHIELD 70/80	SEASHIELD 100	SEASHIELD 2000FD	SEASHIELD 500	SEASHIELD FX-70
Relatively Good / New Consistent Diameter	Exposed Location	Not typically recommended	Not typically recommended	Not typically recommended	Not typically recommended	Not typically recommended	10-15 year service life	10-15 year service life
	Sheltered Location	Not typically recommended	Not typically recommended	Not typically recommended	Not typically recommended	Not typically recommended	10-15 year service life	10-15 year service life
Relatively Bad Variable Diameter Possible Repairs	Exposed Location	Not typically recommended	Not typically recommended	Not typically recommended	Not typically recommended	Not typically recommended	10-15 year service life	10-15 year service life
	Sheltered Location	Not typically recommended	Not typically recommended	Not typically recommended	Not typically recommended	Not typically recommended	10-15 year service life	10-15 year service life

TIMBER PILE

PILE CONDITION	PILE EXPOSURE CONDITIONS	SEASHIELD 70	SEASHIELD 80	SEASHIELD 70/80	SEASHIELD 100	SEASHIELD 2000FD	SEASHIELD 500	SEASHIELD FX-70
Relatively Good / New Consistent Diameter	Exposed Location	5-15 year service life	Not typically recommended	10-15 year service life	Not typically recommended	Not typically recommended	10-15 year service life	10-15 year service life
	Sheltered Location	10-15 year service life	Not typically recommended	10-15 year service life	Not typically recommended	Not typically recommended	10-15 year service life	10-15 year service life
Relatively Bad Variable Diameter Possible Repairs	Exposed Location	5-15 year service life	Not typically recommended	10-15 year service life	Not typically recommended	Not typically recommended	10-15 year service life	10-15 year service life
	Sheltered Location	10-15 year service life	Not typically recommended	10-15 year service life	Not typically recommended	Not typically recommended	10-15 year service life	10-15 year service life

SHORE BASED PIPELINE

PILE CONDITION	PILE EXPOSURE CONDITIONS	SEASHIELD 70	SEASHIELD 80	SEASHIELD 70/80	SEASHIELD 100	SEASHIELD 2000FD	SEASHIELD 500	SEASHIELD FX-70
Relatively Good / New Consistent Diameter	Exposed Location	Not typically recommended	Not typically recommended	5-15 year service life	5-15 year service life	5-15 year service life	Not typically recommended	Not typically recommended
	Sheltered Location	5-10 year service life	Not typically recommended	5-15 year service life	5-15 year service life	5-15 year service life	Not typically recommended	Not typically recommended
Relatively Bad Variable Diameter Possible Repairs	Exposed Location	Not typically recommended	Not typically recommended	5-15 year service life	Not typically recommended	Not typically recommended	Not typically recommended	Not typically recommended
	Sheltered Location	5-10 year service life	Not typically recommended	5-15 year service life	Not typically recommended	Not typically recommended	Not typically recommended	Not typically recommended

SeaShield™

PUB No. 715.07.2025

bsi ISO 9001 Quality Management Systems CERTIFIED Q 09303 ISO 14001 Environmental Management CERTIFIED EMS 677780

PREMIER COATINGS LTD
TEL: +44 (0) 1233 770 663
EMAIL: enquiries@premiercoatings.com
WEB: www.premiercoatings.com
Headcorn Rd, Smarden,
Ashford, TN27 8PJ
UNITED KINGDOM

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