About Five Star Marine Products

Five Star Products, Inc. is the industry leader in the development of systems and products designed for the rehabilitation and stabilization of marine facilities and underwater structures. All of our products are designed and field-tested by experienced commercial divers and engineers with an emphasis on ease of installation, reliability, safety and consistency.

From preventive measures to full structural rehabilitation, Five Star Products’ comprehensive range of products and services has the solution you need for today’s harsh marine environments. With an outstanding track record of customer satisfaction, our staff of committed, experienced personnel is available for job site assistance whenever you need it.

Five Star Products, Inc. has been a top-tier supplier of high-performance cement and epoxy-based products for the industrial, infrastructure, commercial and marine markets since 1955.

For worldwide availability, additional product information and technical support, contact your local Five Star local sales representative, or call Five Star Products’ Engineering and Technical Service Center at 1-800-243-2260.

WARRANTY: "FIVE STAR PRODUCTS, INC. (FSP) PRODUCTS ARE MANUFACTURED TO BE FREE OF MANUFACTURING DEFECTS AND TO MEET FSP'S CURRENT PUBLISHED PHYSICAL PROPERTIES WHEN APPLIED IN ACCORDANCE WITH FSP'S DIRECTIONS AND TESTED IN ACCORDANCE WITH ASTM AND FSP STANDARDS. HOWEVER, SHOULD THERE BE DEFECTS OF MANUFACTURING OF ANY KIND, THE SOLE RIGHT OF THE USER WILL BE TO RETURN ALL MATERIALS ALLEGED TO BE DEFECTIVE, FREIGHT PAYABLE TO FIVE STAR PRODUCTS, INC., FOR REPLACEMENT THEREOF, AND NO OTHER WARRANTIES, WHETHER EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE. FIVE STAR PRODUCTS, INC. SHALL NOT BE LIABLE FOR DAMAGES OF ANY SORT, INCLUDING DIRECT, INDIRECT, OR CONSEQUENTIAL, ARISING FROM ANY CLAIM OF BREACH OF CONTRACT, BREACH OF ANY WARRANTY OR OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR FROM ANY OTHER CAUSE WHATSOEVER. FIVE STAR PRODUCTS, INC. SHALL ALSO NOT BE RESPONSIBLE FOR USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT HELD BY OTHERS."

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Specifications subject to change.
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Retrowrap™ and Geon™ are registered trademarks of Corrosion Control International.

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Five Star® PileForm™ W Retrowrap™ systems by Corrosion Control International provide inshore splash zone and underwater corrosion protection to piles, pipelines and risers.

**PileForm™ W Retrowrap™**

Used for the corrosion protection of inshore splash zone and underwater piles, pipelines and risers. Designed to suit any diameter from 1.97 inches to 9.8 feet (50 mm to 3 meters), it may be interlocked to accommodate any required protected length. Full-length Geon™ closure flanges are factory fitted with corrosion-resistant self-threading fasteners designed to retain PileForm™ W Retrowrap™ in position throughout its service life. During installation, the flanges permit the creation of induced hoop tension within the multilayer fabric, which induces the corrosion-inhibited gel to flow and totally encapsulate and protect the substrate without the use of primers, fillers or tapes.

**FEATURES:**
- Easy one-piece installation; no primer, filler or tapes
- Minimal surface preparation
- Full-length flange closure for easy installation
- Easy removal & replacement for substrate inspection
- Provides active protection with environmentally safe corrosion inhibitors
- May be fitted with corrosion rate monitoring
- Abrasion-resistant
- Totally UV-resistant

**PileForm™ W Retrowrap™ HD**

This heavy-duty, multi-scrim version is specifically designed to provide protection to offshore oil and gas risers or inshore applications subject to external impact damage. As with PileForm™ W Retrowrap™, installation has been reduced to its simplest possible form, saving hours of diver and rigging time.

**FEATURES:**
- Multilayer, heavy-duty construction
- Supplied in interlocking modular lengths
- Does not require substrate shotblast preparation
- Polyurethane provides the highest abrasion resistance
- Full-length closure flanges for easy installation
- Now available with unique anti-fouling outer layer
- Easy removal and replacement for inspection
- Provides active protection with environmentally safe corrosion inhibitors
- Hoop tension forces created within the outer skin resist high wave suction forces
- Cold-applied – no hot work permit required

**How Does PileForm™ W Retrowrap™ Work?**

Sandwiched between layers of polyurethane are memory-enhanced textile-reinforcing scrims that lock the system in place over the substrate. A unique in-line manufacturing process produces a dedicated monocoque fabric that is cut to shape during factory-assembly and thermal-welded into any size required. Full-length Geon™ closure flanges are attached to provide a long-term re-enterable closure. These flanges are factory-drilled to accept a variety of fasteners supplied in materials ranging from SS-316L to Inconel 625. During installation, the thixotropic gel is forced into the surface interstices without any requirement for separately applied fillers, primers and tapes. The result is a one-piece, easily installable jacket that provides a long-term service life in a marine environment.

- One-piece construction
- Totally UV-stable
- High abrasion resistance
- Easily removable for inspection
- Custom-designed
- Conforms to any size and shape
- Hot work permit not required
- 10-year manufacturer’s warranty
- Free engineering assistance

**Extend Pile Life.**

Components which combine to form the Five Star® PileForm™ W Retrowrap™ system are resistant to long term immersion in both seawater and fresh water, and to the attendant biological and chemical attack. In addition, the system will withstand attack from environmental UV, ozone and temperature variations while providing permanent protection in service, by resisting wave and current forces.

**Professional Support**

Five Star® professional support engineers will help you consider a number of design elements for the perfect custom solution.

Call for a free consultation:
1-800-243-2206