

Intersleek 970

Foul release technology

Intersleek® is biocide free and can reduce your operating costs and help maximise your productivity.

As well as maintaining sea water inlet efficiency, Intersleek® 970 can shorten underwater cleaning times and reduce drag to increase fuel efficiency.

- High performance foul release coating based on patented fluoropolymer technology
- Biocide free so there are no environmental issues to deal with relating either to sea contamination or the disposal of biocide containing washings after maintenance
- Ultra-smooth low energy surface reduces friction and maintains efficiency
- Extremely effective at low water currents significantly reducing bio-fouling build-up
- Any accumulated bio-fouling is easily removed either underwater by hand wiping or with a low pressure water wash meaning bio-fouling removal costs are greatly reduced
- Improves the visibility of coated structures underwater thereby making identification easier when carrying out inspections
- Extremely durable, gives an expected performance life of well in excess of ten years



Intersleek 970 is a patented three component, fluoropolymer foul release finish coat

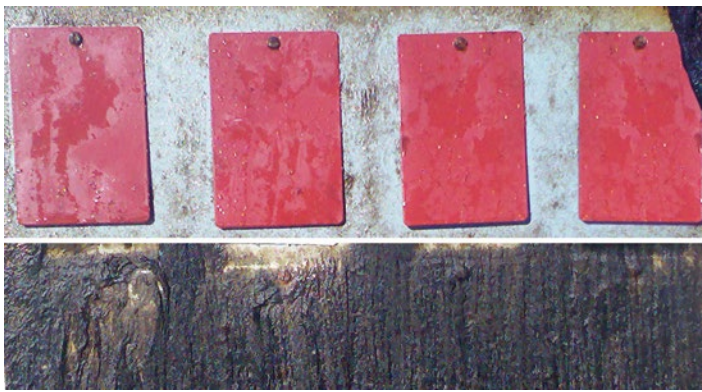
Fluoropolymer chemistry represents the latest advances in foul release technology, improving significantly upon the performance of conventional silicone based systems in static immersion conditions.

Intersleek® 970 must be used as part of a system known as Intersleek 900.

1. Intersleek® 737

A silicone elastomer tie coat developed to promote adhesion between the primer system and the Intersleek® 970 finish coat.

2. Intersleek® 970



Intersleek® 970 panels (top); Anti-corrosive panels (bottom) after immersion in sea water for six months

Typical specification

Surface Preparation:

- High Pressure Fresh Water Wash
- Degrease (SSPC-SP1)
- Grit blast to Sa2½ (ISO 8501-1) or SSPC-SP10 or
- Hydroblasted to International Paint HB21/2 L Standard

Coating system

1 x Intersleek® 970 @ 6 mils (150 µm) DFT

1 x Intersleek® 737 @ 4 mils (100 µm) DFT

1 x Intershield® 300 Bronze @ 5 mils (125 µm) DFT

1 x Intershield® 300 Aluminium @ 5 mils (125 µm) DFT

Steel substrate

Intersleek® 970 is not an antifouling. Antifoulings control marine fouling settlement by releasing toxins or biocides. Intersleek® 970 provides fouling control by a surface effect rather than a biocide effect. Marine growth can settle on Intersleek® 970, however, it will be loosely adhered and is removed from the surface by water movement or by its own weight.

Typically applied over a suitable primer system on a steel substrate, the Intersleek® 900 system can also be applied directly to flexible substrates such as neoprene, fibreglass and high density polyethylene.

Test data

TEST TYPE	REFERENCE	SPECIFICATION DETAILS	TYPICAL RESULT
Roughness	Internal test method	Test panels coated with: 2 x Intershield® 300 at 5 mils (125 µm) DFT per coat 1 x Intersleek® 737 at 4 mils (100 µm) DFT 1 x Intersleek® 970 finish coat at 6 mils (150 µm) DFT	Intersleek® 970 typically has a peak to trough value of 2.2 mils (54 µm) compared to conventional silicone foul release coatings being typically 2.6 mils (66 µm)
Coefficient of friction	ASTM D1894-06	Sa2½ (SSPC-SP10) blasted steel panels coated with: 2 x Intershield® 300 at 5 mils (125 µm) DFT per coat 1 x Intersleek® 737 at 4 mils (100 µm) DFT 1 x Intersleek® 970 finish coat at 6 mils (150 µm) DFT	Intersleek® 970 typically 0.6 for both wet static and wet kinetic tests compared to conventional silicone foul release coatings giving a value of 1.0 for both test types
Barnacle shear adhesion strength	ASTM D5618-94	1 x Intersleek® 970 finish coat at 6 mils (150 µm) DFT	The average force to remove barnacles on Intersleek® 970 was typically (3.6 psi (25 kPa) compared to 6.5 psi (45 kPa) for conventional silicone foul release coatings
Hold-up	Internal test method	Sa2½ (SSPC-SP10) blasted steel panels coated with: 2 x Intershield® 300 at 5 mils (125 µm) DFT per coat 1 x Intersleek® 737 at 4 mils (100 µm) DFT 1 x Intersleek® 970 finish coat at 8.3 mils (208 µm) wft or higher	Intersleek® 970 shows good hold-up at wft in excess of 20 mils (500 µm) whereas less than 12 mils (300 µm) is typical for conventional silicone foul release coatings
Abrasion resistance	ASTM D4060	Test panels coated with: 2 x Intershield® 300 at 5 mils (125 µm) DFT per coat 1 x Intersleek® 737 at 4 mils (100 µm) DFT 1 x Intersleek® 970 finish coat at 6 mils (150 µm) DFT	Intersleek® 970 shows similar results to conventional foul release coatings with an average weight loss of 5 mg at 73°F (23°C) after 100 cycles with a Taber linear abrader using H18 abrasives with a 1 kg loading

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