

Product Data Sheet

Protectolast SR

Kits for Repairing Corroded Handrail, Pipe support, Pipeline and Deck

Tested and Approved

Simple Step-by-Step Application

Commercially Adaptable

Local & International Technical Support

All in One Kit – Including Housekeeping





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Product Overview

Protectolast SR is a two-component, solvent-free, modified polyamine-cured epoxy system designed to deliver long-term protection in highly corrosive environments, boasting a life expectancy of over 30 years. This versatile solution features a single-coat application system, eliminating the need for primers and allowing for unlimited overcoating. Its remarkable chemical resistance extends to acids, alkalis, oils, lubricants, and detergents, while its exceptional abrasion and impact resistance ensures durability. This product is surface-tolerant and exhibits outstanding adhesion to substrates and inter adhesion between layers. Notably, it can cure underwater and even in freezing temperatures, permitting immediate water exposure post-application, and it excels in cathodic disbondment resistance. Furthermore, **Protectolast SR** demonstrates resilience across a wide temperature range, from -35°C to 150°C , and stands up to a broad spectrum of fluids with pH levels ranging from 0 to 14.

Environment

Protectolast SR has been designed to fully respect the environment.

The product contains No VOC (0 %) (100 % solids), No solvents or diluents (WFT = DFT), No coal tar, No isocyanates, No heavy metals.

Protectolast SR is capable of curing underwater without leaching taking place and has no detrimental effect on the sediment, fauna, and flora in and out of the water. When using **Protectolast SR** on static marine structures, the biofilm can form itself on top of the Protectolast coating without affecting the substrate and without any loss of anti-corrosion properties. As Protectolast is a one-layer system. It reduces the amount of waste and minimizes loss spray.



Approvals and Certificates

- ☑ Approved in the petrochemical industry and offshore oil and gas market by Shell, Statoil, ConocoPhillips, Talisman Energy, Maersk Offshore, and Transocean Drilling.
- ☑ University Ghent has granted approval for resistance against Microbially Induced Corrosion (MIC).
- ☑ TÜV Rhineland has provided approval for its compatibility with cathodic protection systems.
- ☑ SGS has confirmed resistance to liquids for Humidor SR (FP)/Protectolast SR (EI 1541 + ISO 2 812-1).
- ☑ Force Technology conducted fuel and water resistance testing for Humidor SR (FP)/Protectolast SR (MIL-PRF 4456F).
- ☑ Norsok M-501, Revision 6 June 2013, Section No. 7, has granted approval by SGS

Technical Specifications

Composition:

Consists of two components.

- » **Component A** is the base component, and it contains:
Non-crystallizable epoxy resins. and coloring pigments High-tech modifying agents and elastifiers. Lamellar abrasion and impact-resistant fillers
- » **Component B** is the hardener and contains Polyamine hardener complex.

Curing:

Protectolast SR can cure under water. The curing of Protectolast SR is a chemical reaction and is water-repellent. The curing times depend on air circulation, temperature, and the film and thickness and can cure at sub-zero.

Curing time:

	-5°C	5°C	10°C	15°C	20°C	25°C	30°C
Touch-dry	24 hours	7 hours	5 hours	4 hours	3 hours	2.5 hours	2 hours
Full cure	6 days	5 days	3 days	2 days	24 hours	12 hours	8 hours

Applications & Properties

All surfaces shall be free of oil, grease, dust, or any other contamination prior to coating. Refer to the table below:

Application Parameters	SR Spray
Temperature before mixing	20 °C – 25 °C
Humidity* Relative Humidity	< 95 %
Humidity Surface	No condensation
Spray Nozzle opening Spray Nozzle Angle	-
Application temperature of mixture	25 °C ± 5 °C.
Minimum surface temperature	Dew point + 3 °C
Maximum Surface temperature	50 °C

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These criteria are valid to achieve the most durable protection. If a reduced coating lifetime is desired, application can continue outside this window. The existing warranties do not apply in these conditions. **Protectolast SR** is almost always applied in a single coat. If several coats are requested, different Protectolast layers can be applied wet- on-wet depending the maximum layer thickness or on top of fully cured layers after removing possible surface contamination/pollution. The overcoating interval is unlimited over time.

PRODUCT PROPERTY'S	DATA
Solid Content (%)	100%
Flash Point mixture A + B	>100 °C
Viscosity of the mixture at 23°C and CSS750 Pa	8.8 ± 1 Pas
Hardness	Shore D > 74
Colors (Gloss) (For color stability (only aesthetic))	Any RAL color 25 colors immediately deliverable
Compatibility with Cathodic Protection Systems (ISO 20340)	Yes
Minimal Thickness	400 µm – 600 µm
Practical thickness in one layer	Strip coat 200 µm Thick layer 400 µm
Density	Component A: ±1.15 g/cm ³ Component B: ±1.08 g/cm ³ Mixture A + B: ±1.36 g/cm ³
Covering capacity (WFT = DFT)	Theoretical @ 200 µm Theoretical @ 400 µm Theoretical @ 800 µm
Mixing Ratio	By Weight: 3.7:1 By Volume: 3.475:1
Shelf Life max 25 °C dry	24 months
Overcoating time	Unlimited
Pot life @ 23°C	25 minutes
Standard packaging / set	1 kg or 5 kg
Shelf-life max 25°C	24 months