X²SubseaCoating

Generic Type Solvent free, two component epoxy polyamide
Description
Self priming solvent free coating to be hand applied under water.
After curing, the applied coating is very tough and resistant to mechanical damages.
Suitable for external surfaces of sealines and pipelines, buried or immersed. Piles and structures of steel and concrete piers. Jacket coating on Offshore platforms, topsides , splash zones etc.
Features
• Excellent corrosion resistance to marine and chemical environments
• Excellent corrosion resistance to sea and fresh water immersion
• Excellent corrosion resistance to buried pipes and tanks
• Excellent resistance to mechanical and abrasion damage
• Excellent resistance to cathodic disbond- ment
• Excellent resistance to electric insulation (12000 V/mm.)
• Application in a single coat more than 5mm.
Color Green only.
(after mixing of the two components yellow and blue))
Gloss Semi-Gloss.
Epoxies loose gloss and eventually chalk in sunlight exposure
Primers Self priming.
Dry Film Thickness
3-5 mm. per coat. (maximum 15 mm. per coat if required).
Solids Content By volume: 100%
Theoretical Coverage Rate
3 mm. : 5 m2/l
5 mm. : 3 m2/l
Allow for loss in mixing and application
Limitation Do not apply during weaving sea or when seawater flows more than 1 knot.

General Employ adequate methods to remove dirt, dust, oil and all other contaminants that could interfere with adhesion of the coating by abrasive blasting or high pressure water blasting. Hand or power tool cleaning methods may be used but are of limited benefit and are time consuming. When working at the splash zone or in salt water, coat cleaned metal surfaces as soon as possible to minimize new corrosion.
Steel Immersion in fresh and/or seawater.
New and old substrates : Sa2½.
Surface profile : minimum 70 micron.
Non-immersion : Sa2½
Surface profile: minimum 70 micron.
Concrete Concrete must be cured 28 days at 24□αC and 50% relative humidity or equivalent. Prepare surfaces in accordance with ASTM D4258 Surface Cleaning of Concrete and ASTM D4259 Abrading Concrete. Voids in concrete may require surfacing.
Immersion in fresh and/or seawater.
New and old substrates: Abrasive blast to obtain a surface profile resembling coarse sandpaper.
Non-immersion.
New and old substrates: Abrasive blast to obtain a surface profile resembling coarse sandpaper.

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General Apply by hand, trowel or broad knife. Spread material smoothly onto the substrate in a 3-5mm. thick layer using enough pressure to displace water and air bubbles. Smooth out the area by hand. When starting another mix, start spreading at and away from the previous applied film. This will help prevent trapped air bubbles or leaving an area uncoated. If applying to dry surfaces in dry air, periodically rewet hands or tools with water to keep the product from sticking.
When used as a patch or grout, force the material into the hole or crack and smooth by hand to the thickness needed. For larger patches greater than 12mm., use a steel or fiberglass plate for added support. Apply SubseaCoating to the substrate, then embed the support plate (cut larger than the hole) and apply X²SubseaCoating overall.
When applied underwater or when wetted with water during application, the surface of the Subseacoating will form an emulsified lighter green ”scum” layer. This layer is normal and facilitates application. The film under the “scum” layer remains undisturbed and will cure properly. The “scum” layer will cure and become part of the finish when Subseacoating is cured above water, however this layer will remain soft and uncured when the X²SubseaCoating is kept underwater during curing.

Mixing Power mix separately Part A and Part B, then combine and mix again to obtain a homogeneous green color. Mixing can be done mechanical as well by hand. When done by hand, keep the gloved hands and the materials wet with water during the mixing process.
Mixing ratio 1:1 (A op B) in weight and volume
Thinning Thinning is not required. The use of a thinner can cause loss of chemical-physical characteristics.
Pot Life 60 minutes at 24□αC and less at higher temperatures.
Apply within 15 minutes and keep mixed product under water.

Clean up Use our thinner or Aceton. In case of spillage, absorb and dispose of in accordance with local applicable regulations.
Safety Read and follow all caution statements on this product data sheet and on the MSDS for this products. Employ normal workmanlike safety precautions. Hypersensitive persons should wear protective clothing, gloves and use protective cream on face, hands and all exposed areas.

Condition Material Surface Ambient Humidity
Normal 18-24□αC 16-27□αC 16-27□αC 30-70%
Minimum 10□αC 10□αC 10□αC 0%
Maximum 38□αC 43□αC 38□αC 100%
Special application techniques may be required above or below normal conditions. Do not apply or cure in acidic or alkaline water (pH less than 6 or greater than 9) or in solutions containing solvents.

Dry to Touch Final cure
Ambient exposure at 24°C 4 Hours 5 Days
Underwater at 13°C 10 Hours 10 Days
These times are based on a 3mm. dry film thickness. If the X²SubseaCoating is final cured, further layers can only be applied when the substrate is sweep-blasted or sanded