

# Estotect UW

High strength Solvent Free  
Under Water Epoxy coating

## DESCRIPTION

**Estotect UW** is a high build solvent free epoxy coating, which is cured chemically. Protection type based on a two pack system capable of underwater curing.

## PRINCIPAL CHARACTERISTICS

- Durable, impermeable solvent free coating with excellent resistance to salt fresh water
- Resist solvents and wide range of chemicals
- Cures under water immersion
- Smooth hard surface, highly abrasion and impact resistant, resist underscore corrosion on steel
- 100% solid coating and presents no solvent environmental hazard due to the release of volatile solvent during application and cure
- **Estotect UW** coating, once cured, is non toxic and will not pollute underwater environment either during or after cure

## RECOMMENDED USE

Under water application for protection of metal, concrete, cement renders, masonry in extremely aggressive environment. Suitable for rehabilitation of corroded steel and concrete in the tidal zone (above and under water). May be used where curing at 5°C required and over damp surfaces.

## SPECIFICATION DATA AT 20°C

Gloss	Semi gloss
Colour	Grey, Black
Specific gravity	1.80 + 0.20 kg/litre
Solids by volume	100 %
Recommended	Dry film thickness : 500 – 2,000 microns Wet film thickness : 500 – 2,000 microns
Coverage theoretical	2 m <sup>2</sup> / liter for 500 microns

## Drying time

Temperature	Touch Dry	Hard Dry
26°C	3 hours	48 hours
32°C	2.5 hours	44 hours
26°C	2 hours	40 hours
40°C	1.5 hours	36 hours

Full cure	7 days
Painting interval	Min : 12 hours Max : 4 months
VOC	0 g/liter
Flash point (DIN 53213)	Base 25°C ; Hardener 65°C
Pot life	30-60 minutes (after mixing the component)
Service temperature	Continuous : 120°C Periodic : up to 120°C
Shelf life	Use within 12 months of production (cool and dry place)

## SURFACE PREPARATION

Steel :

- Surface to be coated should be free from oil, dirt, marine growth, sharp edges, weld splatter etc. Optimum performance is obtained by application of **Estotect UW** to surfaces cleaned by abrasive blasting to :
  1. White metal
  2. A surfaces profile 50 – 75 microns
- Contamination occurring on underwater or splash zone areas between surface preparation and coating must be removed by hydro blasting or brushing before commencing coating operations.

Concrete

- Remove all dirt, oils, grease etc and loose material. All laitance to be removed by light grit blasting or high-pressure water blasting for optimum adhesion of coating. Bug holes and honeycomb areas in concrete should be filled with an approved grout prior to application of **Estotect UW**.

## SYSTEM SPECIFICATION

Subsequent coat ; none or according to the specification.

## INSTRUCTION FOR USE

- Mixing ratio by weight; Base: Hardener = 1: 1
- The temperature of the mixture of base and hardener should be above 15°C.
- Stir well before use, preferable by mechanical mixer to ensure good homogeneity.

## APPLICATION DETAILS

### Cleaning Solvent

Thinner.

### Brushing

Use short stiff bristle brush. Mastic application techniques should be used

### Troweling

May be applied by trowel or flat blade

### Underwater Application

- Apply with glove hand
- It is recommended that **Estotect UW** be applied using the specially developed product application machine (PAM)

## SAFETY PRECAUTION

- Avoid contact with the skin and eyes. Wear suitable protective clothing such as overalls, goggles, dust mask and gloves.
- Ensure that there is adequate ventilation in the area where the product is being applied. Do not breathe the vapour or spray.
- This product is flammable. Keep away from sources of ignition. Do not smoke.

## HEALTH AND SAFETY

For detailed information on the health and safety hazards and precaution for use of this product, please see the [MATERIAL SAFETY DATA SHEET \(MSDS\)](#).

## PACKAGING SIZE AND STORAGE

Packing size (two pack product) : 5 and 20 liter

### Storage

The product must be storage in accordance with national regulation. Preferred storage conditions are to keep the container in the dry space provided with adequate ventilation. The containers should be sealed tightly.

## Important Note

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