





SPECcoat EPL

Resistance

FLEXIBLE PROTECTIVE COATING, BASED ON EPOXY-POLYURETHANE RESINS



mechanical

wear









Waterproof



VOC Free





Cleaning & Maintenance

Coloui Shades

DESCRIPTION

SpECcoat EPU is based on hybrid combination of epoxy-polyurethane resins. It is supplied as a twopack material in pre-weighed quantities ready for onsite mixing and use

TYPICAL USES

SpECcoat EPU provides chemical and abrasion resistance to prevent concrete surfaces for application such as:

- Wall and floor coating for concrete protection
- Manhole and pipe linings •
- Secondary containment
- Lining for sewage and effluent plants
- Sea water tanks, channels and intakes
- Reservoirs, water treatment plants

ADVANTAGES

- Flexible coating
- **Environment friendly**
- Easy brush roller or spray application. No primer needed.
- Excellent chemical resistance. UV resistance and resistance to bacterial growth.

TECHNICAL DATA

Typical properties @ 20±3°C **Mixed specific gravity** 1.40 ± 0.05 **Pot life** 60 - 100 minutes **Tack free time** 8 hours Min. Overcoating time 10 hours **Full cure** 7 days Adhesion strength (ASTM D4541) 2.50 ± 0.5 N/mm² Water Absorption (ASTM C413) 0.2%

Tensile strength (ASTM D412) **Elongation at Break** (ASTM D412) Colour

>11.0 N/mm²

>21% Grey (other colour available subject to minimum order quantities)

APPLICATION

Preparation

It is essential that adequate preparation is carried out prior to the application of SpECcoat EPU.

Grit blasting is recommended to ensure the removal of all laitance, grease and oil. The resultant surface should be dry and dust free. Cracked and damaged areas must be made good with appropriate repair materials like SpECcoat BC. Any metal surfaces should be grit blast to a bright finish.

Priming

Priming is not generally required if the surface is properly prepared and the application is carried out immediately after the preparation.

Mixing

SpECcoat EPU is supplied in a two- component kit consisting of a curing agent and a pigmented base component.

The content of the resin can should be thoroughly stirred to disperse any possible settlement.

The entire hardener should be poured into the base component container.

ENGINEERED SOLUTIONS

It is recommended that the two components are mixed together mechanically using a slow speed electric drill fitted with a Mixing Paddle. Mixing should be carried out continuously for 2-3 minutes, until a uniform consistency is achieved.

Application

A minimum 2 coat application is generally recommended to ensure a full, unbroken coating is achieved.

Brush/Roller Application

Once mixed, the material should be immediately applied, ensuring that a continuous coating is obtained. The first coat is applied to achieve a uniform coating with a wet film thickness not less than 200 microns, and should be allowed to dry.

The second coat should be applied when the first coat is touch dry at a WFT od 200 μ m.

Spray Application

Where large areas are to be coated, it is advisable to consider spray application.

EQUIPMENT CLEANING

All equipment may be cleaned of uncured material using **SpECtop Cleaning Fluid**.

PACKAGING AND YIELD

SpECcoat EPU

4.5 litre and 15 litre units @ 200µm wft: 1st coat - 5.0 m²/litre 2nd coat - 5.0 m²/litre

2nd coat - 5.0 m²/litre (smooth finish)

The rates indicated are for guidance only. The consumption of material will be dependent on the porosity and the condition of the substrate.

Repairing and Overcoating

Any applications of **SpECcoat EPU** which have become damaged can be readily overcoated.

The existing surface should be well abraded, using a stiff wire brush, or similar, to ensure that a good mechanical bond will be achieved between the two layers.

Any loose material should be removed.

Overcoating works can then proceed as for new work, always ensuring that the prepared substrate is free from any moisture.

Limitations

- SpECcoat EPU is formulated for application to clean sound substrates of steel or concrete; and where it can be protected from contact with water for the first 24 hours after application as discolouration could occur.
- For cold weather working (down to 5°C), it is recommended that materials are stored in a heated building and only removed immediately before use. Accelerated heating methods are not to be utilised under any circumstances.

STORAGE AND SHELF LIFE

When stored in a cool environment below 35°C, in original unopened containers, the material has a shelf life of 12 months.

HEALTH AND SAFETY

Contact with skin and eyes should be avoided. It is essential that adequate ventilation is provided and that all personnel avoid inhaling the vapours produced. If working is necessary in a confined area it is strongly recommended that sealed respiratory equipment is utilised.

Eye contact

Rinse with copious amounts of clean water and seek medical attention.

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Eye contact

Rinse with copious amounts of clean water and seek medical attention.

Skin contact

Rinse with copious amounts of clean water followed by thorough cleaning with soap and water.

DO NOT USE SOLVENTS Seek immediate medical attention.

ENGINEERED SOLUTIONS

Ingestion

Seek immediate medical attention.

DO NOT INDUCE VOMITING

FLAMMABILITY

SpECcoat EPU and **SpECcoat BC** are non-flammable.

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