

Strongcoat EU500

High strength self-smoothing epoxy underlay



Description

Strongcoat EU500 is a 3 component epoxy underlay that provides an economical method of levelling floors prior to laying epoxy screed, toppings or coatings such as Strongcoat EC50, Strongcoat HB and Strongcoat SL2.

Applications

Strongcoat EU500 will provide a surface ready to receive applications of other DCP flooring systems.

Advantages

- ▲ High strength.
- ▲ Cost effective.
- ▲ Good chemical resistance.
- ▲ Impact resistant.
- ▲ Quick and easy to apply.
- ▲ Seamless.
- ▲ Durable.

Method of Use

Substrate Preparation

The substrate must be clean, dry, even, dense and free from oil, grease, dust and other contaminants. A clean surface will ensure maximum adhesion between the substrate and the coating.

Concrete floors must have a minimum compressive strength of 25 N/mm² and a maximum concrete relative humidity of 80% (max. moisture content of 4%), relative humidity can be measured by using hygrometers.

Concrete relative humidity should be less than 80% for concrete of 28 days old or more.

Contact DCP technical department for further details.

Surface Preparation

Unsound layers and contaminated concrete surfaces must be prepared using mechanical surface removing equipment. In case of areas deeply contaminated by oil or grease, such areas should be treated with hot compressed air.

Technical Properties @ 25°C:

Compressive strength: BS 6319, Part 2:1983	> 45 MPa @ 1 day > 60 MPa @ 3 days > 70 MPa @ 28 days
Flexural strength: BS 6319, Part 3:1990	≥ 20 MPa @ 7 days
Tensile strength: BS 6319, Part 7:1985	≥ 10 MPa @ 7 days
Pot life:	60 - 80 min
Foot traffic:	After 14 hr
Chemical curing:	7 days
Mixed density:	1.85 ± 0.05 g/cm ³

Priming

Priming is not normally required provided the substrate is sound, untreated, dry and good quality concrete.

For highly porous substrates the surface should be primed with Strongcoat Primer/S.

Mixing

Prior to mixing, stir individual components of Strongcoat EU500.

Taking care to ensure that the bottom and sides are thoroughly scraped, transfer the entire contents of the resin and hardener into a separate mixing container. Using a jiffy-type mixer attached to a slow-running electric drill, mix for approximately for 2 minutes.

Once the Strongcoat EU500 hardener and resin have been mixed, transfer the entire contents into a Casco or Creteangle-type mixer, taking care to ensure that the bottom and sides are thoroughly scraped.

Start the mixer and transfer to it the entire contents of the Strongcoat EU500 Filler container, taking care to ensure that these are completely dry and lump-free. Continue mixing for approximately 2 minutes.

Note: Never mix Strongcoat EU500 by hand as this could lead to areas of uncured material.

Strongcoat EU500

Application

Once mixing is complete, transfer the Strongcoat EU500 to the prime surface at the required thickness by rack.

Care should be taken when joining the lanes, to achieve a smooth connection. It is recommended to mask off edges with tape which is then removed while Strongcoat EU500 is still wet.

Overcoating

At 25°C, overcoating of the Strongcoat EU500 with any other DCP floor system should not start until the Strongcoat EU500 is at least 14 hours old, but not later than 48 hours.

Finishing

While still wet, thoroughly spike roll the Strongcoat EU500.

Remarks

- ▲ Strongcoat EU500 should not be applied on to surfaces known to suffer from damp rising.
- ▲ Strongcoat EU500 should not be applied at temperatures below 10°C or where ambient relative humidity exceeds 80%.

Cleaning

Strongcoat EU500 can be removed by DCP solvent prior setting.

Packaging

Strongcoat EU500 is available in 28.5 kg packs (15.4 litre). Strongcoat Primer/S is available in 5 kg packs.

Thickness range

1.5 - 5 mm.

Coverage

Strongcoat EU500: Approximately 7.7 m²/kit @ 2 mm thick.

Strongcoat Primer/S: Approximately 5 m²/kg.

Actual coverage can vary depending on the substrate conditions.

Storage

Strongcoat EU500 and primer have a shelf life of 12 months from date of manufacture if stored at temperatures between 5°C and 30°C.

If these conditions are exceeded, DCP Technical Department should be contacted for advise.

Cautions

Health and Safety

Strongcoat EU500 and its primer should not come into contact with skin and eyes.

In case of contact with eyes wash immediately with plenty of water and seek medical advise promptly. For further information refer to the Material Safety Data Sheet.

Fire

DCP solvent is flammable material and should not be used near a naked flame. Do not smoke near DCP solvent.

Flash Point: of Strongcoat EU500 and its primer are above 50°C.

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- ▲ Concrete admixtures.
- ▲ Surface treatments
- ▲ Grouts and anchors.
- ▲ Concrete repair.
- ▲ Flooring systems.
- ▲ Protective coatings.
- ▲ Sealants.
- ▲ Waterproofing.
- ▲ Adhesives.
- ▲ Tile adhesives and grouts.
- ▲ Building products.
- ▲ Structural strengthening.

Note:

We endeavour to ensure that any information, advice or recommendation we may give in product literature is accurate and correct. However, because we have no control over where and how products are applied, we cannot accept any liability arising from the use of the products.