

Strongcoat PE500

Two component high build coal tar epoxy resin coating



Description

Strongcoat PE500 is a two component high build polyamide coal tar epoxy. The product has excellent chemical resistance properties which makes it particularly suitable for sewage treatment plants and for aggressive environments. Strongcoat PE500 is suitable for use on concrete and steel surfaces.

Applications

Strongcoat PE500 is designed for use in applications such as:

- ▲ Sewage treatment plants.
- ▲ Chemical processing.
- ▲ Protection of concrete and steel structures submerged in sea water or exposed to tidal or splash zones.
- ▲ Lining of manholes, pipes, jetties, piers, ducting and foundations waterproofing.

Advantages

- ▲ Excellent adhesion to concrete and steel surfaces.
- ▲ Cost effective; does not require primer.
- ▲ Suitable for use as a waterproof coating.
- ▲ High chemical resistance.
- ▲ Does not support bacterial growth.
- ▲ High abrasion resistance.
- ▲ Can be applied to green concrete.
- ▲ Can be applied at 500 micron thickness per coat.

Method of Use

Substrate Preparation

Concrete surfaces:

The Substrate should be sound, clean and free from contamination. Surface laitance should be removed by grit blasting or water jetting. All exposed blow holes should be filled with epoxy paste using Quickmast 341.

Steel surfaces:

All surfaces should be grit blasted to reach a bright finish meeting the requirement of Swedish Standard SA 2 1/2.

Mixing

To ensure proper mixing, a mechanically powered mixer or drill fitted with suitable paddle should be used.

Technical Properties:

Specific gravity:	1.0 @ 20°C
Solid content:	97%
Colour:	Black
Water absorption: ASTM D570	< 0.1%
Bond strength: ASTM D4541	≥ 1.5 MPa
Pot life:	2 - 3 hr @ 25°C 1 - 2 hr @ 35°C
Re-coatable time:	12 hr @ 25°C 8 hr @ 35°C
Full cure:	After 7 days @ 25°C
VOC: ASTM D2369	< 30 g/ltr Complying with LEED requirements
Application temperature:	5 - 40°C
Service temperature:	-10 - 55°C

Stir the content of each component separately to disperse any settlement. Add the entire content of the hardener to the base and mix for 3 minutes and until uniform colour and consistency are achieved.

Application

Strongcoat PE500 can be applied by brush and roller. The first coat should be applied to obtain a continuous uniform coating. The second coat should be applied within the over coating time to achieve the maximum adhesion between the two coats.

Cleaning

All tools should be cleaned immediately after application using DCP Solvent. Hardened materials must be cleaned mechanically.

Packaging

Strongcoat PE500 is available in 18 kg packs.



Strongcoat PE500

Coverage

Approximately 0.5 kg/m²/coat.

Two coats should be applied to achieve 1 mm dry film thickness.

Storage

Strongcoat PE500 has a shelf life of 12 months from date of manufacture if stored in dry conditions at a temperature of 25°C in original unopened Packs.

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

Cautions

Health and Safety

Strongcoat PE500 should not come in contact with skin or eyes. Goggles and gloves should be used.

In case of accidental contact with eyes, immediately flush with plenty of water for at least 10 minutes and seek medical advise if necessary.

For further information refer to the Material Safety Data Sheet.

Fire

Strongcoat PE500 is flammable.

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A wide range of construction chemical products are manufactured by DCP which include:

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

Chemical Resistance after full cure ASTM D1308 (after 7 days immersion in the below chemicals)

Organic Acids

Lactic Acid 10%	R
Oleic Acid (Saturated)	R
Citric Acid 25%	R
Vinegar 10%	R

Inorganic Bases

Sodium Hydroxide 50%	R
Ammonia Solution 10%	R
Potassium Hydroxide 50%	R

Aqueous Solutions

Sodium Chloride (Saturated)	R
Tap Water	R
Chlorinated Water	R
Dead Sea Water	R

Solvents

White Spirit	R
Xylene	R
Toluene	R

Oils & Fuels

Benzyl Alcohol	R
Brake Fluid	R
Engine Oil	R
Diesel	R
Kerosene	R
Detergents & Soaps	R

Inorganic Acids

Sulphuric Acid 25%	R
Phosphoric Acid 20%	R
Hydrochloric Acid 10%	R
Nitric Acid 10%	R

R: Resistant

RS: Resistant with slight discoloration

SS: Slight softening



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.

