

# Strongcoat PE300

Two component solvent based coal tar epoxy resin coating system



## Description

Strongcoat PE300 is a two component 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 is suitable for use on concrete and steel surfaces.

## Applications

Strongcoat PE300 is designed for use in applications such as:

- ▲ Sewage treatment plants.
- ▲ 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.

## 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 blow holes should be filled with epoxy paste such as 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. Stir the content of each component separately to disperse any settlement.

## Technical Properties:

Colour:	Black
Mixed density:	1.45 ± 0.10 g/cm <sup>3</sup>
Solid by weight:	80 ± 5%
Solid by volume:	70 ± 5%
Pot life:	3 - 4 hr @ 25°C 1 - 2 hr @ 35°C
Full cure:	After 7 days @ 25°C
Over coating time:	6 - 24 hr @ 25°C
Water absorption: ASTM D570	< 0.1%
Service temperature:	-10 to 55°C

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 PE300 can be applied by brush, roller or airless spray machine. 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 coats.

### Notes:

- ▲ The area where Strongcoat PE300 is going to be applied must be well ventilated for at least 24 hours, and must not have high relative humidity or any presence of running water.
- ▲ Strongcoat PE300 must not be applied over other coats, but only over itself within the recoatable time.
- ▲ Application of Strongcoat PE300 should not be done at low temperatures (below 8°C).
- ▲ UV light and some chemicals may change the colour of Strongcoat PE300 especially when the coat is still not fully cured, (7 days). However, this colour change does not affect the performance of the coating.

## Cleaning

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

# Strongcoat PE300

## Packaging

Strongcoat PE300 is available in 25 kg packs (17.25 litre).

## Coverage

Approximately 2 m<sup>2</sup>/ ltr to achieve 350 microns DFT per coat.

## Storage

Strongcoat PE300 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 PE300 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 PE300 is flammable.

*Flash Point:* ≈ 50°C.

## Chemical Resistance

Tests were carried out in accordance to ASTM D543, after 7 days @ 25°C ± 2:

Lactic Acid 10%	Resistant
Citric Acid 10%	Resistant
Sodium Hydroxide 50%	Resistant
Ammonia Solution 10%	Resistant
Water	Resistant
Chlorinated Water	Resistant
Dead Sea Water	Resistant
White spirit	Resistant
Xylene	Resistant*
Acetone	Resistant
Brake Fluid	Resistant*
Diesel	Resistant
Kerosene	Resistant
Sulphuric Acid 10%	Resistant
Hydrochloric Acid 10%	Resistant
Nitric Acid 10%	Resistant
UV – Resistant	Resistant*

*\*Note: Slight discoloration may occur without affecting the material physical properties.*

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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.

