

Strongcoat PSE

Chemical resistant epoxy polysulphide flexible coating



DESCRIPTION

Strongcoat PSE is a two component, flexible, high solids, epoxy polysulphide resin coating designed to provide good UV, abrasion and weather resistance. Strongcoat PSE has outstanding chemical and mechanical properties to protect concrete and steel from aggressive environment or wide range of chemicals.

APPLICATIONS

Strongcoat PSE is designed for variety of applications such as:

- » Heavy duty protective and waterproof coating for concrete and steel.
- » Heavy duty wall and floor coating in food processing plants, grain silos, dairies, breweries.
- » Car parks.
- » Suitable for use in reservoirs containing sewage sludge, chemical, oils and fuel.
- » Roofing applications.
- » Sub-structural waterproofing.

ADVANTAGES

- » Produces a seamless membrane that is both easy to clean and does not induce bacterial and fungal growth.
- » Excellent resistance to a variety of chemicals, oils and fuel.
- » Excellent abrasion and impact resistance.
- » UV and weather resistant.
- » Flexible; able to bridge cracks up to 1 mm.
- » Easy to apply by brush, roller, or airless spray.
- » Excellent adhesion without the need for a primer.

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 a suitable paddle should be used. Stir the content of each component separately to disperse any settlement.

TECHNICAL PROPERTIES:

Colour:	Various
Mixed density:	1.45 ± 0.05 g/cm ³ @ 25°C
Pot life:	110 min @ 25°C
Time between coats	24 hr @ 25°C
Full cure:	7 days @ 25°C
Elongation*: ASTM D412	≥ 30%
Tensile strength*: ASTM D412	≥ 6 MPa
Shore A hardness*: ASTM D2240	≥ 85
Bond strength to concrete*: ASTM D4541	≥ 2 MPa (concrete failure)
Service temperature:	-10 to 70°C
UV resistance:	Good
Abrasion*: (500 gm 1000 cycle) ASTM D4060, CS-17 wheel	≤ 80 milligram

**Tested at 7 days full cure.*

Add the entire contents of the hardener to the base and mix for 3 minutes and until uniform colour and consistency are achieved.

APPLICATION

Strongcoat PSE 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 the two coats.

Notes:

- » Strongcoat PSE should not be applied over existing coatings. However it can be applied on top of itself, by maintaining the mentioned over coating time.
- » Application should not be undertaken if the temperature is below 5°C, nor when the relative humidity exceeds 90%.
- » Application should not be carried out, when there is standing or running water.

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Strongcoat PSE

- » Strongcoat PSE is not colour stable when exposed to direct sun light nor when in contact with some chemicals. However this colour change does not affect the performance of the coating.
- » Precaution is recommended if the application is taking place at high temperatures (above 30°C).

CLEANING

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

PACKAGING

Strongcoat PSE is available in 30 kg packs (20.6 litres).

COVERAGE

Approximately 0.75 kg/m² per 500 microns DFT per 2 coats. Higher thicknesses can be achieved with either multiple application or by using airless spray machines.

STORAGE

Store in a dry area out of direct sunlight at temperatures between 5°C and 35°C.

SHELF LIFE

Strongcoat PSE has a shelf life of 12 months if stored in dry conditions at room temperature in original unopened Packs.

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

CAUTIONS

HEALTH AND SAFETY

Strongcoat PSE 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 advice if necessary.

For further information refer to the Safety Data sheet.

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OCCASSIONAL SPILLAGE

Chemical Resistance after full cure, ASTM D1308 (Spot - test @ 1 hr)

Hydrochloric Acid 32%	RS
Sulphuric Acid 50%	R
Citric Acid 10%	R
Sodium Hydroxide 50%	R
Diesel	R
Engine Oil	R
Bleach 5%	R
Potassium Hydroxide 50%	R
Nitric Acid 25%	SS

R: Resistant

RS: Resistant with slight discoloration

SS: Slight softening

FIRE

Strongcoat PSE contains volatile flammable solvents.

MORE FROM DON CONSTRUCTION PRODUCTS

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.

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.