

Strongcoat 400

Nontoxic solvent free epoxy protective coating for concrete and metal



DESCRIPTION

Strongcoat 400 is a solvent free, non-toxic; high build epoxy resin protective coating with outstanding chemical and mechanical properties. Strongcoat 400 is supplied as a two component product in pre-weighted base and hardener packs, ready for site mixing.

APPLICATIONS

Strongcoat 400 is designed for internal applications such as:

- » Heavy duty protective coating for concrete and steel.
- » Internal protective lining for potable water concrete or steel tanks.
- » Heavy duty wall and floor coating in food processing plants, grain silos, dairies, breweries, hospitals, and pharmaceutical industries and car parks.
- » High chemical resistant protective coating for power stations, oil refineries, and sewage treatment plants.

ADVANTAGES

- » Approved for use in contact with potable water.
- » Suitable for contact with foodstuffs.
- » Excellent resistance to mould and fungus growth.
- » Excellent resistance to a variety of chemicals.
- » Easy to clean with a smooth, hard and glossy finish.
- » Non-toxic, low odour and taint free.
- » Exhibits good mechanical properties.
- » Resistant to sewage effluents.

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.

TECHNICAL PROPERTIES:

Specific gravity:	1.50 ± 0.10
Solid content:	100%
Colour:	Variable
Bond strength: ASTM D4541-85	> 2 MPa
Pot life:	55 - 75 min @ 25°C
Re-coatable time:	5 - 16 hr @ 25°C
Full cure:	7 days @ 25°C
Chemical resistance:	Long term immersion in water, petrol, oil, diluted acids and alkalis
Compressive strength: BS 6319, Part 2:1983	≥ 65 MPa
Tensile strength: BS 6319, Part 7	≥ 25 MPa
Taber abrasion resistance: (1000 g, 1000 cycle) ASTM D4060, weight loss CS17 wheel	< 85 milligrams
VOC: ASTM D2369	< 20 g/ltr (complies with LEED)

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. 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 400 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.

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Strongcoat 400

Notes:

- » Strongcoat 400 should not be applied over existing coatings. However it can be applied on top of itself, by maintaining the mentioned recoatable time.
- » Application should not be undertaken if the temperature is below 5°C, nor when the relative humidity exceeds 90%.
- » Application should not be done, when there is standing or running water.
- » Strongcoat 400 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 400 is available in 5 kg packs (3.33 litre).

COVERAGE

0.3 kg/m² per coat. Two coats should be applied to achieve 400 microns dry film thickness.

STORAGE

Strongcoat 400 has a shelf life of 12 months from date of manufacture if stored in dry conditions at room temperature in original unopened Packs

If these conditions are exceeded, contact DCP Technical Department for advise.

CAUTIONS

HEALTH AND SAFETY

Strongcoat 400 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 400 is nonflammable.

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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.

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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.

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