

Strongcoat 400 Plus

Solvent free, nontoxic epoxy protective coating for concrete and metal



DESCRIPTION

Strongcoat 400 Plus is a two component solvent free, non-toxic epoxy resin protective coating with outstanding mechanical and chemical properties.

Strongcoat 400 Plus is supplied in pre-weighed base and hardener packs, ready for site mixing.

APPLICATIONS

Strongcoat 400 Plus is designed for internal applications such as:

- » Wall and floor coating in hospitals, pharmaceutical industries, food processing plants, grain silos, dairies, breweries, and car parks.
- » Protective coating for concrete and steel.
- » Internal protective lining for potable water concrete or steel tanks.
- » High chemical resistant protective coating for the sewage and waste water industry.

ADVANTAGES

- » Non-toxic.
- » Does not induce bacterial and fungal growth.
- » Easy to clean with a smooth, hard and glossy finish.
- » Exhibits good mechanical properties.
- » Excellent resistance to a variety of chemicals.

STANDARDS

Strongcoat 400 Plus complies with the requirements of BS 6920 for use in contact with potable water.

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 steel surfaces should be grit blasted to reach a bright finish meeting the requirement of Swedish Standard SA 2 ½.

TECHNICAL PROPERTIES:

Colour:	Various
Solid content:	100%
Specific gravity:	1.6 ± 0.1
Pot life:	50 min @ 25°C
Re-coatable time:	
Minimum	4 hr @ 25°C
Maximum	24 hr @ 25°C
Full cure:	After 7 days @ 25°C
Compressive strength: BS 6319-2	≥ 70 MPa @ 7 days
Flexural strength: BS 6319-3	≥ 30 MPa @ 7 days
Tensile strength: BS 6319-7	≥ 15 MPa @ 7 days
Bond strength over C25/30 concrete: ASTM D4541	≥ 2 MPa @ 7 days (substrate failure)
Taber abrasion resistance: (1000 g, 1000 cycle) ASTM D4060, weight loss CS17 wheel	60 milligram
Chemical resistance:	Refer to DCP chemical resistance table
VOC: ASTM D2369	≤ 10 g/ltr (comply with LEED)

PRIMING

Strongcoat 400 Plus is designed to be directly applied over well prepared steel and concrete substrates without a primer. If the application will take place over other substrates, please consult DCP's Technical department for advice.

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MIXING

To ensure proper mixing, a mechanically powered mixer or drill fitted with a suitable paddle should be used. Stir individual components of Strongcoat 400 Plus to disperse any settlement. Add the entire content of the hardener to the base container and mix for approximately 3 minutes and until a uniform colour and consistency are achieved.

APPLICATION

Strongcoat 400 Plus can be applied using a brush, roller or airless spray machine. Strongcoat 400 Plus should not be applied over existing coatings. However, it can be applied on top of itself, by maintaining the mentioned over coating time.

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:

- » Application should not be carried out, when there is standing or running water.
- » Application should not be undertaken if the temperature is below 5°C, nor when the relative humidity exceeds 90%.
- » Precaution is recommended if the application is taking place at high temperatures (above 30°C).
- » Strongcoat 400 Plus 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.

CLEANING

All tools should be cleaned immediately using DCP Solvent. Hardened material must be cleaned mechanically.

PACKAGING

Strongcoat 400 Plus is available in 5 kg packs (3.1 litre) 10 kg (6.25 litres), 15 kg (9.35 litres) and 20 kg (12.5 litres) packs.

COVERAGE

Approximately 0.16 kg/m² per coat. Two coats should be applied to achieve a total of 200 microns dry film thickness.

OCCASSIONAL SPILLAGE

Chemical Resistance after full cure (7 days @ 25°C), ASTM D1308 (Spot - test @ 1 hr)

Organic Acids

Oleic Acid sat.	RS
Citric Acid 25%	R
Vinegar 10%	RS

Inorganic Bases

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

Aqueous Solutions

Sodium Chloride sat	R
Tap Water	R
Chlorinated Water	R
Dead Sea Water	R

Solvents

White Spirit	R
Xylene	R
Toluene	R
Acetone	R

Oils & Fuels

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

Inorganic Acids

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

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STORAGE

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

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

CAUTIONS

HEALTH AND SAFETY

Strongcoat 400 Plus 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.

FIRE

Strongcoat 400 Plus is nonflammable.

CHEMICAL RESISTANCE

Based on test method ASTM D1308, after 7 days immersion in the below chemicals.

Nitric Acid 10%	RS
Phosphoric Acid 20%	RS
Hydrochloric Acid 10%	RS
Vinegar 5%	RS
Sulphuric Acid 25%	RS
Ammonia Solution 10%	R
Tap Water	R
Sodium Chloride Sat.	R
Diesel	R
Engine Oil	R
Brake Fluid	R

R: Resistant

RS: Resistant with slight discoloration

SS: Slight softening

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- » Concrete admixtures.
- » Surface treatments
- » Grouts and anchors.
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- » 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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