

Strongcoat Epoxy

Solvent free, nontoxic epoxy protective coating for concrete and metal



DESCRIPTION

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

Strongcoat Epoxy is supplied as a two component product in pre-weighed base and hardener packs, ready for site mixing.

APPLICATIONS

Strongcoat Epoxy is designed for internal applications such as:

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

ADVANTAGES

- » Produces a surface that is both easy to clean and does not induce bacterial and fungal growth.
- » Excellent resistance to a variety of chemicals.
- » Easy to clean with a smooth, hard and glossy finish.
- » Non-toxic.
- » Exhibits good mechanical properties.

STANDARDS

Strongcoat Epoxy complies with the requirements of BS 6920 for using 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 surfaces should be grit blasted to reach a bright finish meeting the requirement of Swedish Standard SA 2½.

TECHNICAL PROPERTIES:

| | |
|--|--------------------------------------|
| Colour: | Various |
| Specific gravity: | 1.6 ± 0.1 |
| Solid content: | 100% |
| 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 |
| Bond strength over C25/30 concrete: ASTM D4541 | ≥ 2 MPa @ 7 days (substrate failure) |
| Compressive strength: BS 6319-2 | ≥ 70 MPa @ 7 days |
| Tensile strength: BS 6319-7 | ≥ 15 MPa @ 7 days |
| Flexural strength: BS 6319-3 | ≥ 30 MPa @ 7 days |
| Taber abrasion resistance: (1000 g, 1000 cycle) ASTM D4060, weight loss CS17 wheel | 70 milligram |
| VOC: ASTM D2369 | ≤ 10 g/ltr (comply with LEED) |

PRIMING

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

DCP Saudi Co.

Sulay, Industrial Area, Istanbul St., Riyadh
Industrial City 3, Jeddah
Saudi Arabia
info.saudi@dcp-int.com
www.dcp-int.com



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

APPLICATION

Strongcoat Epoxy 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 epoxy 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.
- » Strongcoat Epoxy 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 using DCP Solvent. Hardened material must be cleaned mechanically.

PACKAGING

Strongcoat Epoxy 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. | 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 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% | R |
| Hydrochloric Acid 10% | R |
| Nitric Acid 25% | R |

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STORAGE

Strongcoat Epoxy 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 advice.

CAUTIONS

HEALTH AND SAFETY

Strongcoat Epoxy 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 Epoxy 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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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.

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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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DCP Building Excellence



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