

# Strongcoat Topping T

Heavy duty epoxy topping for floor surfaces



## DESCRIPTION

Strongcoat Topping T is a three-pack solvent free, epoxy-based topping that provides floor surfaces with a seamless, hygienic and cosmetically attractive finish.

Strongcoat Topping T is applied by trowel and can be covered and laid to falls and has a very good durability towards pedestrian and vehicular traffic. It also has very good resistance towards many of the chemicals commonly found in an industrial environment (consult our Technical department for further details).

Strongcoat Topping T has a finish that provides very good slip resistance and can be supplied in a natural colour and variety of colours, it is also available in a decorative quartz finish (consult our Sales Department for details).

## APPLICATIONS

Strongcoat Topping T is used to provide a hygienic, dense and extremely hard wearing surface for concrete floors for a wide range of applications such as:

- » Warehouses.
- » Paint workshops.
- » Dairies.
- » Chemical factories.
- » Oil refineries.
- » Freezers and refrigerated storage (at 5 mm thickness).

## ADVANTAGES

- » Extremely hard wearing system.
- » Solvent free.
- » Non-slip.
- » Available in a wide range of attractive colours.
- » Available in a decorative quartz finish.
- » Resist a wide range of chemicals, consult DCP technical department for more details.

## STANDARDS

Strongcoat Topping T complies with EN 13813, Class SR-B2.0-AR0.5-IR10.

## METHOD OF USE

### SUBSTRATE PREPARATION

The substrate must be clean, dry, even, dense and free from oil, grease, dust and other contaminants. A clean surface will ensure maximum adhesion between the substrate and the coating.

## TECHNICAL PROPERTIES @ 25°C:

|   |  |
|---|--|
| Mixed density:                                  | 2.1 ± 0.1 g/cm <sup>3</sup>            |
| Compressive strength:<br>ASTM C579              | ≥ 95 MPa @ 7 days                      |
| Flexural strength:<br>EN 13892-2                | ≥ 30 MPa @ 7 days                      |
| Tensile strength:<br>BS 6319-7                  | ≥ 17 MPa @ 7 days                      |
| Pot life:                                       | 50 - 70 min                            |
| Foot traffic:                                   | After 24 hr                            |
| Vehicular traffic:                              | After 72 hr                            |
| Full chemical cure:                             | 7 days                                 |
| Bond strength on<br>C20/25 concrete:<br>EN 1542 | ≥ 2 MPa @ 7 days<br>(concrete failure) |
| Maximum wear depth:<br>EN 13892-4               | ≤ 0.05 mm                              |
| Impact resistance:<br>ISO 6272-2                | Pass @ 10 N.m @ 7 days                 |
| Shore D hardness:<br>ASTM D2240                 | ≥ 80                                   |
| VOC:<br>ASTM D2369                              | ≤ 20 g/ltr<br>(comply with LEED)       |

Concrete floors must have a minimum compressive strength of 25 N/mm<sup>2</sup> and a maximum concrete relative humidity of 80% (max. moisture content of 4%), relative humidity can be measured by using hygrometers.

Concrete relative humidity should be less than 80% for concrete of 28 days old or more, for low W/C ratio concrete floors, 80% hygrometer reading or less can be achieved before 28 days age.

Contact DCP Technical Department for further details.

## SURFACE PREPARATION

Unsound layers and contaminated concrete surfaces must be prepared using mechanical surface removing equipment. In case of areas deeply contaminated by oil or grease, such areas should be treated with hot compressed air.



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## PRIMING

Concrete substrates should be primed with Strongcoat Primer. Use lambs wool roller to apply the primer. More than one coat may be required for highly porous or textured surfaces.

Work the primer well into the surface of the concrete and whilst the primer is wet, dress the surface with Antislip Aggregates #3 at the rate of 0.5 kg/m<sup>2</sup> and allow to touch dry.

Another prime coat shall be applied just before applying the mixed Strongcoat Topping T to ensure a strong bond between the primer coat and the top coat.

## MIXING

Transfer the entire contents of the colour pack into the base container and mix till a uniform colour is achieved. Add the contents of the Strongcoat Topping T Hardener into the base container and using a jiffy-type mixer attached to a slow running electric drill, mix for approximately 2 minutes.

Then transfer the entire contents of the base container into a Casco or Creteangle-type mixer, ensuring that the bottom and sides are thoroughly scraped.

Start the mixer and add the entire contents of the Strongcoat Topping T Filler container, ensuring that this is completely dry and lump-free. Continue mixing for approximately 2 minutes.

*Important: Never mix by hand as this could lead to areas of uncured material.*

## APPLICATION

Once mixing is complete, transfer the Strongcoat Topping T to the uncured primed surface and using a straight-edged steel trowel, apply it evenly.

The use of Quickmast Solvent when used to clean the trowel will also aid in producing a tight closed surface.

*Important: When applying each kit of Strongcoat Topping T, leave approximately 200 mm of the closest working edge untrowelled as this will help the blending in of the next kit. Avoid excessive trowelling as this can lead to marks resembling burns on the surface.*

## REMARKS

- » Strongcoat Topping T should not be applied on to surfaces known to suffer from damp rising.
- » Strongcoat Topping T should not be applied at temperatures below 10°C or where ambient relative humidity exceeds 80%.

## CLEANING

Strongcoat Topping T can be removed by DCP solvent prior setting.

## PACKAGING

Strongcoat Topping T "natural" is available in 29.35 kg packs (14 litre).

Strongcoat Topping T "coloured" is available in 30 kg packs (14.3 litre) including colour pack.

Strongcoat Primer is available in 5 kg packs.

## THICKNESS RANGE

2 - 5 mm.

## COVERAGE

Strongcoat Topping T: Approximately 2.75 - 3.00 m<sup>2</sup>/kit @ 5 mm thick.

Strongcoat Primer: 5 m<sup>2</sup>/kg.

## STORAGE

Strongcoat Topping T and primer have a shelf life of 12 months from date of manufacture if stored at temperatures between 5°C and 30°C.

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

## CAUTIONS

## HEALTH AND SAFETY

Strongcoat Topping T and its primer should not come into contact with skin and eyes.

In case of contact with eyes wash immediately with plenty of water and seek medical advise promptly.

For further information refer to the Material Safety Data Sheet.

## FIRE

Strongcoat Topping T and its primer are non flammable. DCP solvent is flammable material and should not be used near a naked flame. Do not smoke near DCP solvent.



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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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