

Strongcoat Topping

Heavy duty epoxy topping for floor surfaces



DESCRIPTION

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

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

- » Heavy industry factories.
- » Aircraft hangars.
- » Paint workshops.
- » Steel works.
- » Dairies.
- » Chemical factories.
- » Oil refineries.
- » Freezers and refrigerated storage with temperatures down to -25°C (consult DCP's technical department for more details).

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 complies with EN 13813, SR-B2.0-AR0.5-IR10.

TECHNICAL PROPERTIES @ 25°C:

Mixed density:	2.10 ± 0.05 g/cm ³
Pot life:	1 hr
Compressive strength: BS 6319, Part 2 ASTM C579	≥ 85 MPa @ 7 days
Flexural strength: BS 6319, Part 3 EN 13892-2	≥ 30 MPa @ 7 days
Tensile strength: BS 6319, Part 7	≥ 15 MPa @ 7 days
Shore D hardness: ASTM D2240	≥ 80 @ 7 days
Foot traffic:	After 24 hr
Vehicular traffic:	After 72 hr
Chemical curing:	7 days
Bond strength over C35/40 concrete: ASTM D4541	≥ 3.5 MPa @ 7 days (substrate failure)
Maximum wear depth: BS EN 13892-4	0.03 mm
Impact resistance: ISO 6272-2	> 20 N.m
VOC:	< 20 g/ltr

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.

Concrete floors must have a minimum compressive strength of 25 N/mm² 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.



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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.

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/m² and allow to touch dry.

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

MIXING

Prior to mixing, stir the individual components of Strongcoat Topping, taking care to ensure that the bottom and sides are thoroughly scraped. Transfer the entire contents of the Base and Hardener into a separate mixing container.

Using a Jiffy-type mixer attached to a slow-running electrical drill, mix for approximately 2 minutes. Once mixed, transfer the entire contents into a Casco or Creteangle-type mixer, taking care to ensure that the bottom and sides are thoroughly scraped.

Start the mixer and transfer to it the entire contents of the Strongcoat Topping Filler container, taking care to ensure that these are completely dry and lump-free. Continue mixing for approximately 2 minutes.

Notes:

- » Never mix Strongcoat Topping by hand as this could lead to areas of uncured material.
- » In certain cases the Base of the product can be supplied uncoloured and needs the addition of a colour pack. In such cases, mix the components of the Base, Hardener and colour pack using same procedure above, then add the filler component accordingly.

CHEMICAL RESISTANCE

Occasional spillage after full cure (7 days @ 25°C), ASTM D1308 (spot test @ 1 hr & 30°C)

Bleach	R
Detergent	R
Xylene	R
Acetone	R
White spirit	R
Motor Oil	R
Diesel	R
Petrol	R
Sulphuric Acid (25%)	R
Hydrochloric Acid (10%)	R
Nitric Acid (10% solution)	R
Phosphoric Acid (50%)	RS
Sodium Hydroxide (50%)	R
Sodium Chloride (saturated)	R
Brine (saturated)	R

R: Resistant

RS: Resistant with slight discoloration

APPLICATION

Once mixing is complete, transfer the Strongcoat Topping 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, leave approximately 200 mm of the closest working edge untrowelled as this will help the blending in of the next kit.

Note: Avoid excessive trowelling as this can lead to marks resembling burns on the surface.

REMARKS

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

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SEALING

To ensure that the surface is fully sealed, it is recommended that Strongcoat Topping is sealed with two coats of water based Strongcoat WD. If the floor will be exposed to chemicals, two coats solvent based Strongcoat EC10 is recommended. (see related data sheets for further details and chemical resistance tables).

Note: Please note that the application of a sealer will impair the slip resistance of the floor when subject to wet conditions.

CLEANING

Strongcoat Topping can be removed by DCP solvent prior setting.

PACKAGING

Strongcoat Topping "natural" is available in 29.35 kg packs (14.7 litre).

Strongcoat Topping "coloured" is available in 30 kg packs (15 litre) including colour pack.

Strongcoat Primer is available in 5 kg packs.

THICKNESS RANGE

5 mm and above.

COVERAGE

Strongcoat Topping: Approximately 3 m²/kit @ 5 mm thick.

Strongcoat Primer: 5 m²/kg.

STORAGE

Strongcoat Topping 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 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 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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