

# Griptop TF

Heavy duty modified epoxy polyurethane system topping for floor surfaces



## DESCRIPTION

Griptop TF is a solvent free, modified epoxy polyurethane system based topping that provides floor surfaces with a hygienic and cosmetically attractive finish. Griptop TF is applied by trowel and can be coved and laid to falls.

Griptop TF has excellent durability when subjected to pedestrian and vehicular traffic. It also has very good resistance for a wide range of chemicals commonly found in industrial environments.

Griptop TF finish provides a very good slip resistant floor, and can be supplied in a variety of colours.

## APPLICATIONS

Griptop TF 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.
- » Paint workshops.
- » Steel works.
- » Dairies.
- » Chemical factories.
- » Oil refineries.

## ADVANTAGES

- » Hard-wearing.
- » Solvent free.
- » Hygienic and non-tainting.
- » Will not support bacterial growth.
- » Easy to clean when sealed.
- » Thermal shock resistant.
- » Withstands temperatures up to 120°C when applied at a thickness of 9 mm.
- » Able to withstand steam and hot water cleaning.
- » Non-slip.
- » Available in a wide range of attractive colours.
- » Resistant to a wide range of chemicals.

## STANDARDS

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

### TECHNICAL PROPERTIES @ 25°C: FOR GRIPTOP TF

|                                                                            |                                                     |
|----------------------------------------------------------------------------|-----------------------------------------------------|
| Density:                                                                   | 1.9 ± 0.1 g/cm <sup>3</sup>                         |
| Pot life:                                                                  | 30 - 50 min                                         |
| Foot traffic:                                                              | After 24 hr                                         |
| Vehicular traffic:                                                         | After 5 days                                        |
| Chemical curing:                                                           | 7 days                                              |
| Flexural strength:<br>ASTM C580                                            | ≥ 30 MPa @ 7 days                                   |
| Tensile strength:<br>BS 6319-7                                             | ≥ 15 MPa @ 7 days                                   |
| Bond strength on<br>C25/30 concrete:<br>ASTM D 4541<br>EN 13892-8          | ≥ 2 MPa @ 7 days<br>(concrete failure)              |
| Abrasion resistance:<br>ASTM D4060<br>(1000 cycles, 1000 g)<br>CS-17 Wheel | ≤ 80 milligram                                      |
| Impact resistance:<br>ISO 6272-2<br>(on concrete)                          | Pass @ 10 N.m                                       |
| Water absorption:<br>ASTM D570                                             | 0.35%<br>0.2% (when sealed with<br>Griptop TF Seal) |
| VOC:<br>ASTM D2369                                                         | < 20 g/ltr<br>(comply with LEED)                    |

### TECHNICAL PROPERTIES @ 25°C: FOR GRIPTOP TF SEAL

|                                               |                               |
|-----------------------------------------------|-------------------------------|
| Density:                                      | 1.15 ± 0.05 g/cm <sup>3</sup> |
| Pot life:                                     | 30 - 50 min                   |
| Bond strength to<br>Griptop TF:<br>ASTM D7234 | ≥ 2 MPa                       |



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## TEMPERATURE RESISTANCE AND THICKNESS RANGE

A 5 mm thickness of Griptop TF can withstand liquid spillages up to 60°C and cold temperatures down to -15°C.

A 9 mm thickness or greater can withstand liquid spillages up to 120°C and cold temperatures down to -25°C.

## METHOD OF USE

### SUBSTRATE PREPARATION

The substrate must be clean, dry, even, dense and free from oil, grease, dust and other contaminants. Unsound layers and contaminated concrete surfaces must be removed using suitable mechanical surface preparation equipment. For areas that are deeply contaminated with oil or grease, treat the surface using hot compressed air

A clean surface will ensure maximum adhesion between the substrate and the coating.

Concrete floors must have a minimum compressive strength of 25 MPa and a maximum concrete relative humidity of 75% (equivalent to a maximum moisture content of 5%). Relative humidity can be measured by using hygrometers.

Concrete relative humidity should be below 75% after 28 days or longer curing. For low water-to-cement ratio concrete floors, a hygrometer reading of 75% RH or less can often be achieved before 28 days.

For surfaces with RH greater than 75%, prime the substrate with one coat of Strongcoat DPM, allow it to cure fully, and then apply one coat of Griptop TF Primer.

### PRIMING

Concrete substrates should be primed with Griptop TF Primer. Apply the primer using a lambs wool roller. Highly porous or textured surfaces may require more than one coat.

Work the primer thoroughly into the concrete surface and, while it is still wet, broadcast Antislip Aggregates #3 at a rate of 0.5 kg/m<sup>2</sup> and allow it to become touch dry.

Apply a further coat of primer immediately before applying the mixed Griptop TF to ensure a strong bond between the primed substrate and the topping.

## TECHNICAL PROPERTIES @ 25°C: FOR GRIPTOP TF PRIMER

|                    |                               |
|--------------------|-------------------------------|
| Density:           | 1.10 ± 0.05 g/cm <sup>3</sup> |
| Pot life:          | 40 - 80 min                   |
| Overcoating time:  | 12 - 24 hr                    |
| VOC:<br>ASTM D2369 | ≤ 30 g/ltr                    |

## MIXING

Griptop TF consists of four components: base, colour pack, hardener and filler.

Transfer the entire contents of the colour pack into the base container and mix thoroughly until a uniform colour is achieved. Add the contents of the Griptop TF hardener to the base container and, using a jiffy-type mixer attached to a slow-running electric drill, mix for approximately two 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 Griptop TF filler container, ensuring that the filler is completely dry and free from lumps. Continue mixing for approximately two minutes.

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

## APPLICATION

Once mixing is complete, transfer Griptop TF to the primed surface and, using a straight-edged steel trowel, apply it evenly.

The use of DCP Solvent to clean the trowel during application will also help produce a tight, closed surface.

*Important: When applying each kit of Griptop TF, leave approximately 200 mm of the nearest working edge untrowelled to assist in blending with the next kit. Avoid excessive trowelling, as this may cause surface marks resembling burns.*

For a smooth finish, seal the cured trowelled surface within 48 hours using Griptop TF Seal.

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## REMARKS

Griptop TF should not be applied at temperatures below 5°C.

*Note: Griptop TF is not colour stable and may discolour over time due to on ageing and exposure to UV light, particularly in lighter shades. This will not adversely affect the performance of the product.*

## CLEANING

Tools can be cleaned using DCP Solvent prior to setting.

## PACKAGING

Griptop TF Primer is available in 5 kg packs.  
Griptop TF is available in 30 kg packs.  
Griptop TF Seal is available in 5 kg packs.

## COVERAGE

Griptop TF Primer: 4.5 m<sup>2</sup>/kg per coat for a dry film thickness of 200 microns.  
Griptop TF: Approximately 3.1 m<sup>2</sup>/kit @ 5 mm thick.  
Griptop TF Seal: 4 - 5 m<sup>2</sup>/ kg per coat for a dry film thickness of 180 to 200 microns.

## STORAGE

Griptop TF Primer and Griptop TF 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, contact DCP Technical Department for advice.

## CAUTIONS

### HEALTH AND SAFETY

Griptop TF and its primer should not come into contact with skin and eyes.

In case of contact with eyes, immediately flush with plenty of water and seek medical attention.

For further information, refer to the Material Safety Data Sheet.

### FIRE

Griptop TF, Griptop TF Primer and Griptop TF Seal are nonflammable materials.

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.



**Note:**

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