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 (consult our Technical department for further details).

Griptop TF finish provides a very good slip resistant floor, and can be supplied in a variety of colours (consult our Sales Department for details).

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.
- ▲ Resistant to temperatures between -40°C and 120°C.
- ▲ Able to withstand steam and hot water cleaning.
- ▲ Conforms to FDA CFR 21, 175 for food contact.
- ▲ Non-slip.
- ▲ Available in a wide range of attractive colours.
- Resistant to a wide range of chemicals, consult DCP technical department for more details.

Standards

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

Technical Properties @ 25°C: For Griptop TF

Density:	$1.9 \pm 0.1 \text{g/cm}^3$
Compressive strength: BS 6319-2	≥ 90 MPa @ 7 days
Flexural strength: EN 13892-2	≥ 30 MPa @ 7 days
Tensile strength: BS 6319-7	≥ 15 MPa @ 7 days
Bond strength on C25/30 concrete: ASTM D 4541 EN 13892-8	≥ 2 MPa @ 7 days (concrete failure)
Abrasion resistance: ASTM D4060 (1000 cycle, 1000 g) CS-17	≤ 35 milligram
Maximum wear depth: BS EN 13892-4	0.01 mm
Impact resistance: ISO 6272-2	Pass @ 10 N.m
Water absorption:	Nil
Pot life:	30 - 50 min
Foot traffic:	After 24 hr
Vehicular traffic:	After 5 days
Chemical curing:	7 days
VOC: ASTM D2369	< 20 g/ltr (complies with LEED)
Technical Properties @ 25ºC: For Griptop TF Seal	
Density:	1.15 ± 0.05 g/cm ³
Pot life:	30 - 50 min
Bond strength to	

Maximum wear depth: 0.02 mm over Griptop TF BS EN 13892-4 layer

Griptop TF:

≥ 2 MPa



Griptop TF

Temperature Resistance and Thickness Range

A 5 mm thickness of Griptop TF is able to withstand liquid spillage up to 60° C and cold temperature down to -15° C.

A 9 mm thickness and above of Griptop TF is able to withstand liquid splillage up to 120°C and cold temperature down to -40°C.

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 75% (max. moisture content of 5%), relative humidity can be measured by using hygrometers.

Concrete relative humidity should be less than 75% at 28 days or more. For low w/c ratio concrete floors, 75% hygrometer reading or less can be achieved before 28 day age. For surfaces with RH greater than 75%., prime the substrate with one coat of Strongcoat DPM, allow to cure, then apply one coat of Griptop TF Primer.

Contact DCP technical department for further details.

Surface Preparation

Unsound layers and contaminated concrete surfaces must be removed using mechanical surface removing equipment. For areas deeply contaminated by oil or grease, treat with hot compressed air.

Priming

Concrete substrates should be primed with Griptop TF Primer.

Use lambs wool roller to apply the primer. More than one coat may be required for highly porous or textured surfaces.

Technical Properties @ 25°C: For Griptop TF Primer

Density:	1.10 ± 0.05 g/cm ³
Pot life:	80 - 120 min
Over coating time:	12 - 24 hr
VOC: ASTM D2369	≤ 30 g/ltr

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 Griptop TF to ensure strong bond between the primed substrate and the topping.

Mixing

Griptop TF consists of four packs, base component, colour pack, hardener and filler.

Transfer the entire contents of the colour pack into the base container and mix until a uniform colour is obtained. Add the contents of the Griptop TF Hardener into the base container. 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 this is completely dry and lump-free. 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 the 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 aid in producing a tight closed surface.



Important: When applying each kit of Griptop TF, 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.

To have a smooth finish, the cured trowelled surfaces is sealed (within 48 hours) using Griptop TF Seal.

Remarks

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

Note: Griptop TF is not colour stable and may discolour on ageing and exposure to UV light, especially with light colours. This will not adversely affect the performance of the product.

Cleaning

Griptop TF and primer can be removed by DCP solvent prior setting.

Packaging

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

Coverage

Griptop TF: Approximately 3.1 m²/kit @ 5 mm thick. Griptop TF Primer: 4.5 m²/kg per one layer to provide 200 micron DFT.

Griptop TF Seal: 4 - 5 m²/ kg per one layer to provide 180 - 200 microns DFT.

Storage

Griptop TF 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.

Griptop TF

Cautions

Health and Safety

Griptop TF 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

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.

Flash Point: of Griptop TF, Griptop TF Primer and Griptop TF Seal is above 50°C. *Flash Point:* of DCP Solvent is 37°C.

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.

Griptop TF



Note:

We endeavor to ensure that any advice, recommendation or information we may give in product literature is accurate and correct. However, due to the fact that we have no direct or continuous control over where or how the products are applied, DCP cannot accept any liability either directly or indirectly arising from the use of DCP products, whether or not in accordance with any advice, specification, recommendation or information given by us.

www.dcp-int.com

expertise
quality
full range

05-0029-A-2020