

Griptop[®] RT

Heavy-duty polyurethane floor screed



DESCRIPTION

Griptop RT is a three-pack polyurethane screed that provides floor surfaces with a seamless, hygienic, slip resistant and cosmetically attractive finish.

Griptop RT is applied by trowel and can be laid to falls. It is designed to provide excellent resistance to abrasion, chemical attack and other physical aggression, and it has very good durability towards pedestrian and vehicular traffic.

Griptop RT can be steam cleaned and is resistant to hot water and liquid exposure of temperatures up to 120°C when applied at 9 mm or above. It has very good resistance to many of the chemicals commonly found in an industrial environment (consult our Technical Department for further details).

Griptop RT can be supplied in a variety of colours (consult our Sales Department for further details).

APPLICATIONS

- › Food production areas, dairies, breweries, etc.
- › Heavy-duty engineering areas.
- › Workshops.
- › Pharmaceutical industries.
- › Chemical plants.
- › Industrial plants.

ADVANTAGES

- › Hard wearing and excellent impact resistance.
- › Resistant to temperatures up to 120°C at 9 mm thickness; and up to 80°C at 6 mm thickness.
- › Provides seamless, hygienic floor.
- › Easy to clean.
- › Resistant to a wide range of chemicals (consult DCP Technical Department for more details).
- › Slip resistant.
- › Steam Cleanable at > 9mm.
- › Fast return to service.

STANDARDS

Griptop RT complies with EN 13813, SR-B2.0-AR0.5-IR4.

TECHNICAL PROPERTIES @ 20°C:

Pot life:	15 min
Pedestrian traffic :	12 - 16 hr
Light wheeled traffic:	24 hr
Full traffic:	48 hr
Full cure:	7 days
Bond strength: EN 1542	≥ 2.0 N/mm ² @ 28 days
Slip resistance pendulum test: BS 7976-2	Dry > 50 Wet > 40
Temperature resistance:	up to 120°C @ 9 mm thickness up to 80°C @ 6 mm thickness
VOC: ASTM D2369	< 15 gr/ltr (comply with LEED)

METHOD OF USE

SUBSTRATE PREPARATION

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

Concrete floors must be a minimum of 28 days old and have a minimum compressive strength of 25 N/mm², a minimum pull-off strength of 1.5 N/mm², and a maximum concrete relative humidity of 75% (max. moisture content of 4%), relative humidity can be measured by using hygrometers.

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SURFACE PREPARATION

Substrates should be prepared by mechanical means using vacuum enclosed abrasive blast cleaning or diamond grinding equipment, or other suitable removal methods to remove laitance and previous surface treatments followed by thorough vacuuming leaving an open textured surface. Weak concrete must be removed and repaired using recommended products.

Following the preparation of a concrete surface, care should be taken to ensure that any surface irregularities are filled with a twin pack epoxy putty such as Quickmast 341.

To ensure a good bond to the substrate, a 10 mm deep x 10 mm wide rebate must be cut around the edges of the floor, 150 mm from the walls, doorways, finished edges, drains, plinths, etc, and running parallel to them.

For treatment of surfaces containing expansion joints, consult our Technical Department.

PRIMING

Use lambs wool roller to apply the primer. Surfaces must be primed with Strongcoat Primer on which 0.7 – 1.2 mm dry quartz aggregate has been scattered at approximately 0.5 kg/m². Work the primer well into the surface and ensure that toe-in groves are coated but not filled with primer.

Notes:

- » *More than one coat of primer may be required for highly porous or textured surfaces.*
- » *Excess unbounded aggregate should be removed.*

For surfaces with RH between 75 and 85%, prime with 1 coat of Strongcoat DPM and allow to cure before priming with Strongcoat Primer.

For surfaces with RH greater than 86%, prime with 2 coats of Strongcoat DPM and allow the second coat to cure before priming with Strongcoat Primer.

MIXING

Prior to mixing, stir the individual components to disperse any settlement. Transfer the entire contents of the Base and Hardener into a separate mixing container or a rotary drum mixer taking care to ensure that the bottom and sides are thoroughly scraped.

Using a Jiffy-type mixer attached to a slow running electric drill, or the rotary drum mixer, Mix for approximately two minutes until a lump free consistency is obtained.

Once the Griptop RT Hardener and Resin have been mixed, transfer all the mixed material 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 Griptop RT Filler container, taking care to ensure that these are completely dry and lump-free. Continue mixing for approximately two minutes.

Notes:

- » *Never mix Griptop RT by hand as this could lead to areas of uncured material*
- » *It is essential that the mixing station and the supply of materials are positioned such that a continuous supply of mixed material can be maintained to minimise breaks in the application process.*

APPLICATION

Once mixing is complete, transfer the Griptop RT to the primed surface and, using a straight-edged steel trowel, apply it evenly to the required thickness achieving a flat surface.

Care must be taken to ensure chases and toe in groves are fully filled, and each mix is blended into the previous mix, avoiding the disturbance of materials that have started to set up.

When applying each kit of Griptop RT, leave approximately 200 mm of the closest working edge untrowelled as this will help the blending in of the next kit. Take care not to excessively trowel the Griptop RT as this will lead to burnish marks on its surface.

WORKING CONDITIONS

The ambient temperature of the substrate and works area should be a minimum of 15°C during the application and curing period, otherwise, lower temperature can adversely affect the cure, colour and appearance of the system. Materials and substrate temperature must be above 10°C.

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LIMITATIONS

- » Protect the floor from damp, condensation and water for at least 24 hours at 20°C before and after installation.
- » Ensure that the ambient temperature remains above 10°C for at least 24 hours after installation.
- » As with other polyurethane products, Griptop RT is NOT UV stable. Cosmetic yellowing can occur under UV exposure. This will not adversely affect the performance of the product.
- » The substrate and uncured floor must be kept at least 3°C above the dew point to reduce the risk of condensation or blooming on the surface.
- » The texture and appearance of Griptop RT may vary due to the hand applied nature of the product i.e Sweep marks and a banded appearance may be visible.
- » Products from different batches should not be used in the same area or on surfaces close together, as variations in colour may occur between different batches.
- » Griptop RT contains white aggregate/filler which imparts a slip resistant profile to the finished floor. When first installed, the floor has a uniform coloured surface. However, with general use, the white aggregate will begin to show through giving a decorative, mottled appearance.

CURING TIME

At 20°C, Griptop RT can be opened to pedestrian traffic after 12 - 16 hours and heavy wheeled traffic after 48 hours.

At the same temperature, it should be allowed to cure for seven days before exposing it to chemical contamination (consult our Technical Department for details of curing times at other temperatures).

CLEANING AND HYGIENE

In order to enhance and maintain life expectancy, slip resistance and aesthetic properties, regular cleaning should be done using industry standard cleaning chemicals and equipment.

Please contact DCP technical department for advice. Griptop RT can be steam cleaned at 9 mm.

CLEANING

Once mixing, application and finishing are complete, tools can be cleaned with Xylene.

PACKAGING

Griptop RT is available in 26.64 kg units.

THICKNESS RANGE

6 - 9 mm.

COVERAGE

Approximately 12 kg/m² at 6mm thickness.
Approximately 18 kg/m² at 9mm thickness.

STORAGE

Store in dry conditions at temperatures between 10°C and 25°C. Do not expose to freezing conditions.

SHELF LIFE

Griptop RT have a shelf life of 6 months from date of manufacture if stored in unopened containers and under good conditions. Aggregates/filler part will have 3 month shelf life.

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

CAUTIONS

HEALTH AND SAFETY

Consult the appropriate Material Safety Data Sheet prior to using each product.



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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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