Griptop Anti-Static

Medium to heavy duty flow applied polyurethane topping with anti-static properties

DESCRIPTION

Griptop Anti-Static is a polyurethane topping that provides floor surfaces with a seamless, hygienic, and cosmetically attractive matte finish.

The finished system provides surface-to-surface and surface-to-ground resistance of < 1×10^9 ohms. Griptop Anti-Static is designed for medium-to heavy-duty applications in food and chemical processing areas, electronic manufacturing facilities, hospitals, and similar environments.

Griptop Anti-Static offers excellent durability under pedestrian and vehicular traffic. It also provides excellent resistance to many chemicals commonly found in industrial environments (consult our Technical Department for details).

Griptop Anti-Static can be supplied in a variety of colours (consult our Sales Department for details).

ADVANTAGES

- Provides anti-static flooring for controlled static discharge.
- Provides hygienic floor.
- Easy to clean.
- Resistant to a wide range of chemicals.
- Hard wearing and good impact resistance.
- Slip resistant.

METHOD OF USE

SURFACE PREPARATION

The surface must be clean, dry (less than 75% RH measured by hygrometer) and free of laitance (see the DCP Guide to Surface Preparation for further details).

To ensure a good bond to the substrate, saw cut grooves that are twice as wide and twice as deep as the screed thickness. The grooves must be opened at a distance of 5 to 10 cm from coves and walls, running parallel to them. For treatment of surfaces containing expansion joints, consult DCP Technical Department.

ELECTRICAL PROPERTIES:	
Surface resistance: ASTM F150	
Surface-to-surface:	< 1×10^9 ohms
Surface-to-ground:	< 1×10^9 ohms
PHYSICAL PROPERTIES FOR TOPCOAT:	
Colour:	Variable
Mixed density:	1.80 ± 0.10 g/cm^3
Pot life:	15 - 25 min @ 25°C
Pedestrian traffic:	18 hr @ 25°C
Light wheeled traffic:	24 hr @ 25°C
Full traffic:	48 hr @ 25°C
Full cure:	7 days @ 25°C
Compressive strength: BS 6319-2	≥ 40 MPa @ 28 days
Flexural strength: ASTM C580	≥ 13 MPa @ 28 days
Tensile strength: BS 6319-7	≥ 6 MPa @ 28 days
Shore D hardness: ASTM D2240	≥ 70 @ 28 days
Bond strength: EN 1542	≥ 2.5 MPa (substrate failure)
VOC:	< 50 g/ltr
PHYSICAL PROPERTIES FOR BASE COAT:	
Colour:	Black
Mixed density:	1.05 ± 0.05 g/cm^3
Pot life:	1 - 2 hr @ 25°C
Tack free time:	2 - 3 hr @ 25°C

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PRIMING

Concrete substrates should be primed with Strongcoat Primer and allowed to cure for 24 hours. Apply the primer using a lambswool roller. Highly porous or textured surfaces may require more than one coat.

For substrates with a relative humidity between 75% and 85%, apply one coat of Strongcoat DPM and allow it to dry before applying the Strongcoat Primer. For substrates with a relative humidity above 86%, apply two coats of Strongcoat DPM. Allow the second coat to dry fully before priming with Strongcoat Primer.

Once the primer has fully cured, copper tape shall be applied to the primed concrete substrate in accordance with the approved method statement, which provides detailed requirements and procedures for the application of the copper tape.

GRIPTOP ANTI-STATIC BASE COAT

Prior to mixing, stir each component thoroughly to eliminate any settled deposits. The entire contents of the hardener container should be poured into the base container and the two materials mixed thoroughly for at least 3 minutes, until a uniform black colour is achieved.

The use of a heavy-duty, slow-speed drill fitted with a mixing paddle is recommended. Apply using a suitable short-nap roller. Allow to cure for 24 hours under normal conditions before overcoating with the topcoat.

GRIPTOP ANTI-STATIC TOPCOAT

Prior to mixing, stir each component thoroughly to eliminate any settled deposits. The entire contents of the hardener container should be poured into the base container and mix using a Jiffy-type mixer fitted to a slow-speed electric drill for approximately two minutes, or until a smooth, lump-free consistency is achieved. The mixer speed should be maintained at 300 - 400 rpm to prevent air entrapment and ensure a uniform blend.

Once the base and hardener have been mixed, transfer the mixed material into a Casco or Creteangletype mixer, ensuring that the bottom and sides are thoroughly scraped.

Start the mixer and gradually add the entire contents of the filler container, making sure the filler is dry and free from lumps. Continue mixing for approximately two minutes until the mixture is homogeneous.

Note: Never mix Griptop Anti-Static Topcoat by hand as this could lead to areas of uncured material.

Once mixing is complete, transfer Griptop Ansti-Static Topcoat onto the base coat and apply it evenly using a straight-edged steel trowel.

FINISHING

Whilst still wet, thoroughly spike roll Griptop Anti-Static.

LIMITATIONS

- Ensure good ventilation in the application area to prevent excessive ambient humidity, which could affect the product's performance.
- To minimise colour fading and the effect of efflorescence, protect the installed floor from damp, condensation, and water for 4 to 5 days.
- 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.
- In areas of exposure to direct UV light, Griptop Anti-Static is susceptible to some yellowing with time, especially with light colours. This will not adversely affect the performance of the product.

WORKING CONDITIONS

Griptop Anti-Static should not be applied at temperatures less than 5°C.

CLEANING

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

PACKAGING

Strongcoat Primer: 5 kg packs.
Griptop Anti-Static Base Coat: 5 kg packs.
Griptop Anti-Static Topcoat: 16 kg packs.

THICKNESS RANGE

2 - 4 mm.

COVERAGE

Strongcoat Primer: 5 m^2/kg @ 200 micron DFT.
Griptop Anti-Static Base Coat: 4.5 m^2/kg @ 200 micron DFT.
Griptop Anti-Static Topcoat: Approximately 2.8 m^2 per kit @ 3 mm thickness.

Actual coverage can vary depending on the substrate conditions.

STORAGE

Store at temperatures between 5°C and 30°C.

SHELF LIFE

Griptop Anti-Static have a shelf life of 6 months from date of manufacture if stored in unopened containers and under good conditions.

If these conditions are exceeded, contact DCP Technical Department for advice.

CAUTIONS

HEALTH AND SAFETY

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

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- Concrete admixtures.
- Surface treatments
- Grouts and anchors.
- Concrete repair.
- Flooring systems.
- Protective coatings.
- Sealants.
- Waterproofing.
- Adhesives.
- Tile adhesives and grouts.
- Building products.
- Structural strengthening.