

Strongcoat Dissipative

Dissipative floor with resistance up to 1×10^9 Ohm



DESCRIPTION

Strongcoat Dissipative is a flow-applied thick epoxy resin floor topping with dissipative properties. The system comprises of an epoxy primer, a dissipative epoxy base coat and a dissipative epoxy topcoat.

APPLICATIONS

Strongcoat Dissipative has a resistance up to 1×10^9 Ohm. Strongcoat Dissipative is suitable for use in areas where a static dissipative floor is required, such as:

- » Electronic manufacturing facilities.
- » Hospital operation theatres.
- » Hazardous dust and chemical environments.

ADVANTAGES

- » Provide a dissipative floor for static electricity to pass through to earth controlling static electricity.
- » Alternative smooth finish.
- » Hard wearing surface that can be subjected to heavy foot traffic and forklift traffic.
- » Chemical resistant.

METHOD OF USE

SUBSTRATE PREPARATION

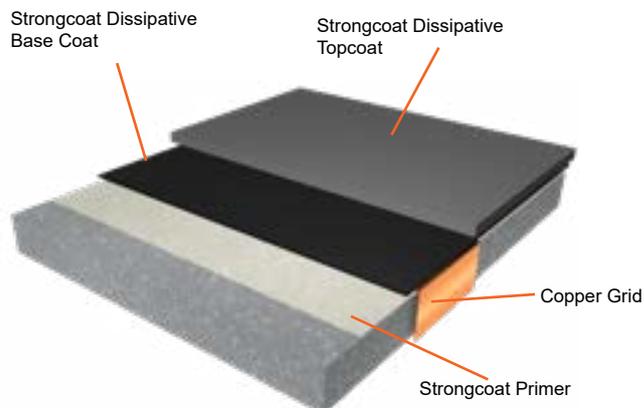
The substrate must be clean, dry, even, dense and free from oil, grease, dust and other contaminations. A clean surface will ensure maximum adhesion between the substrate and the coating.

Concrete floors must have a minimum compressive strength of 25 N/mm^2 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.

SURFACE PREPARATION

Ensure that all pinholes and grooves in the prepared substrate are properly filled using suitable epoxy putty materials prior to the application of subsequent layers. This is crucial to prevent pinhole reflection and to achieve a smooth, seamless finish.

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.



ELECTRICAL PROPERTIES:

Surface resistance:
ASTM F150-78 $\leq 1 \times 10^9$ ohms

PHYSICAL PROPERTIES FOR TOPCOAT:

Mixed density: $1.6 \pm 0.1 \text{ g/cm}^3$
Pot life: 50 - 80 min @ 25°C
Cure time:
Foot traffic 24 hr @ 25°C
Vehicular traffic 48 hr @ 25°C

Compressive strength:
BS6319, Part 2:1983 $\geq 50 \text{ N/mm}^2$ @ 7 days

VOC: $< 50 \text{ g/ltr}$

PHYSICAL PROPERTIES FOR BASE COAT:

Colour: Black
Mixed density: $1.05 \pm 0.05 \text{ g/cm}^3$
Pot life: 1 - 2 hr @ 25°C
Tack free time: 2 - 3 hr @ 25°C

PRIMING

Concrete substrates should be primed with Strongcoat Primer. The primer should be allowed to cure for 24 hours. Use lambs wool roller to apply the primer. More than one coat may be required for highly porous or textured surfaces.

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.

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STRONGCOAT DISSIPATIVE BASE COAT

Prior to mixing, stir the two components of Strongcoat Dissipative Base Coat (base & hardener). The entire contents of the base container should be poured into the hardener container and the two materials mixed thoroughly for at least 3 minutes.

The use of a heavy duty slow speed drill fitted with a mixing paddle is recommended. Application is done by using a suitable short hair roller. Allow to cure for 24 hours at normal conditions before being over coated with Strongcoat Dissipative Topcoat.

STRONGCOAT DISSIPATIVE TOPCOAT

Taking care to ensure that the bottom and sides are thoroughly scraped, transfer the entire contents of the resin and hardener into a separate mixing container.

Using a jiffy-type mixer attached to a slow-running electric drill, mix for approximately for 2 minutes. Once the hardener and resin have been mixed, transfer the entire contents into a Casco or Creteangel-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 filler container, taking care to ensure that these are completely dry and lump free. Continue mixing for approximately 2 minutes.

Once mixed, the Strongcoat Dissipative Topcoat should be applied in a unidirectional manner using a V-shape notched trowel or pin leveler. Care should be taken when joining the lanes, to achieve a smooth connection. Good lighting conditions will assist in even application and spotting the poorly covered areas.

It is recommended to mask off edges with tape which is then removed while product is still wet.

After around 10 minutes of laying the topcoat, it should be rolled using a spike roller at right angle to the direction of laying. After further 15 - 20 minutes, a second spike rolling should be done in a perpendicular direction to the first direction.

For more information about the installation and verification of Strongcoat Dissipative, refer to the product's Method Statement or contact DCP Technical Department.

OCCASIONAL SPILLAGE

Chemical Resistance after full cure (7 days @ 25°C)

Organic Acids

Lactic Acid 10%	RS + SS
Oleic Acid sat.	R
Citric Acid 25%	RS
Vinegar 10%	R

Inorganic Bases

Sodium Hydroxide 50%	R
Ammonia Solution 10%	R
Potassium Hydroxide 50%	R

Aqueous Solutions

Sodium Chloride sat	R
Tap Water	R
Chlorinated Water	R
Dead Sea Water	R

Solvents

White Spirit	R
Xylene	R
Toluene	R
Acetone	R

Oils & Fuels

Benzyl Alcohol	R
Brake Fluid	RS
Engine Oil	R
Diesel	R
Kerosene	R
Detergents & Soaps	R

Inorganic Acids

Sulphuric Acid 25%	R
Phosphoric Acid 20%	RS + SS
Hydrochloric Acid 36%	RS + SS
Nitric Acid 10%	R

R: Resistant

RS: Resistant with slight discolouration

SS: Slight softening

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REMARKS

In lighter colour shades, the product may experience accelerated yellowing over time, even indoors, particularly when exposed to heat from strong lighting (e.g., industrial discharge lamps, fluorescent lamps, metal halide or mercury vapour lamps).

PACKAGING

Strongcoat Primer: 5, 10 or 20 kg packs.
Strongcoat Dissipative Topcoat: 15 or 35 kg packs.
Strongcoat Dissipative Base Coat: 5 or 25 kg packs.

COVERAGE

Strongcoat Primer: 0.2 kg/m² for a thickness of approximately 180 microns.
Strongcoat Dissipative Base Coat: 7.5 m²/kg for a thickness of approximately 125 microns.
Strongcoat Dissipative Topcoat: 3.2 kg/m² for a thickness of approximately 2000 microns.

Note: Actual coverage can vary depending on the substrate conditions.

STORAGE

Strongcoat Dissipative system has 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

Strongcoat Dissipative should not come into contact with skin and eyes.

In case of contact with eyes wash immediately with plenty of water and seek medical advice promptly.

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



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- » Building products.
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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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