

Strongcoat HB ESD

High build, electrostatically discharged floor coating



DESCRIPTION

Strongcoat HB ESD is a high-performance, anti-static epoxy resin floor topping, designed for industrial environments where static electricity control is crucial. The system comprises of an epoxy primer, a dissipative epoxy base coat, and a dissipative epoxy topcoat.

APPLICATIONS

Strongcoat HB ESD is suitable for use in areas where an anti-static floor is required, such as:

- » Electronic manufacturing facilities.
- » Server rooms and IT facilities.
- » Aviation and aerospace facilities.

ADVANTAGES

- » Controls static electricity.
- » Protects sensitive electronic equipment from damage caused by electrostatic discharge.
- » Good chemical resistance.
- » Easy to clean.

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.

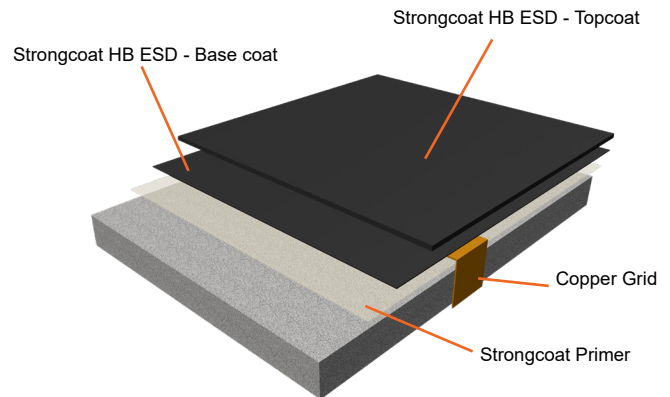
Concrete floors must have a minimum compressive strength of 25 N/mm² and a maximum concrete relative humidity of 80% (max. moisture content of 4%), relative humidity can be measured by using hygrometers. Concrete relative humidity should be less than 80% for concrete of 28 days old or more.

SURFACE PREPARATION

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.

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.

SYSTEM STRUCTURE



System Thickness: ≈ 600 - 650 microns

Product	Thickness	Consumption
Strongcoat Primer	150 - 200 microns	0.2 kg/m ²
Copper Grid	-	-
Strongcoat HB ESD - Base coat	50 microns	0.133 kg/ m ²
Strongcoat HB ESD - Topcoat	1 st coat: 200 microns 2 nd coat: 200 microns	1 st coat: 0.3 kg/m ² 2 nd coat: 0.3 kg/m ²

PRIMING

Concrete substrates should be primed with Strongcoat Primer, allowing it to cure for 24 hours. Use a lambs wool roller to apply the primer, and note that more than one coat may be required for highly porous or textured surfaces.

Self-adhesive copper tape should be firmly applied to the cured Strongcoat Primer to that no part of the floor is more than 2 meters away from the copper tape. Make sure that the perimeter tape is overlapped and applied at 300 – 500 mm from the edge of the wall. Extend the copper tape to adequate number of earthing points depending on the floor area and condition.

Note: For the best results, always use a minimum of 2 earthing points even in small installation.

STRONGCOAT HB ESD BASE COAT

Prior to mixing, stir the two components of Strongcoat HB ESD Base Coat. 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.

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Strongcoat HB ESD

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 the Strongcoat HB ESD Topcoat.

STRONGCOAT HB ESD 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 mixing is complete, transfer to a roller tray. Then, use a mohair roller to apply it evenly in two coats over the surface.

PACKAGING

Strongcoat Primer is available in 5 and 10 kg packs.
Strongcoat HB ESD Base Coat is available in 5 kg packs.
Strongcoat HB ESD Topcoat is available in 20 kg packs.

COVERAGE

Strongcoat Primer: Approximately 5 m²/kg at 150 – 200 micron DFT.
Strongcoat HB ESD Base Coat: Approximately 7.5 m²/kg @ 50 micron DFT.
Strongcoat HB ESD Topcoat: Approximately 3.33 m²/kg @ 200 micron DFT.

STORAGE

Strongcoat HB ESD 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 HB ESD 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.

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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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ELECTRICAL PROPERTIES:

Electrical resistance*: EN IEC 61340-5-1	≤ 10 ⁶
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**The electrical resistance values are for Strongcoat HB ESD Topcoat when the system is applied in accordance with the mentioned instructions. Failure to follow these instructions may cause differences in these values. Consult DCP Technical Department for more information.*

TECHNICAL PROPERTIES FOR BASE COAT @ 25°C:

Colour:	Black
Mixed density:	1.05 ± 0.05 g/cm ³
Pot life:	40 - 60 min

TECHNICAL PROPERTIES FOR TOPCOAT @ 25°C:

Colour:	Black
Mixed density:	1.50 ± 0.05 g/cm ³
Pot life:	20 - 30 min
Recoat time:	6 - 24 hr
Slip resistance: BS EN 13036-4	Dry ≥ 55
Flexural strength: BS EN 13892-2	≥ 25 N/mm ² @ 7 days
Tensile strength: BS 6319-7	≥ 10 N/mm ² @ 7 days

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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.