

Flowshield ESD 1000 Conductive (1mm)



Description

Anti-static, hard-wearing, self-smoothing resin floors finish, applied at 1mm.
Complies with ASTM F150-06

Uses

To provide a hard wearing, seamless, anti-static floor compliant with ASTM F150-06 (Conductive Flooring).
Used in dry process areas where the floor is subjected to medium to heavy-duty foot, trolley, pallet truck and rubber wheeled forklift traffic. Typical uses include laboratories, clean rooms, equipment testing areas, warehouses, and electronic, aerospace, automotive printing and pharmaceutical plants.

Benefits

- Attractive, enhances working environment
- Meets ASTM F150-06 conductive requirements
- Hygienic – easy to clean
- Non-tainting, non-dusting
- Hard wearing floor finish
- Abrasion resistant

Project References

Chee Mei Electronic, Taiwan; Nokia, Malaysia; Iris Technology, Malaysia; Flextronix, Malaysia; Toshiba, Malaysia; Sharp Roxy, Malaysia; Ericsson, Malaysia; Ta Yee Electronic, Taiwan; Filtronic Telecommunication, China.

Standard Colour Chart



Buff



Clipper Blue



Ocean Blue



Pastel Green



Forest Green



Tile Red



Dark Grey



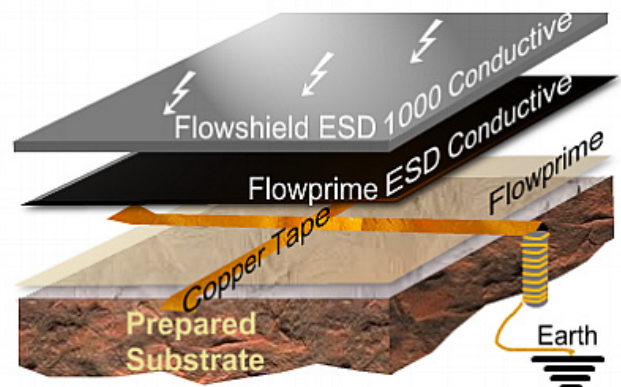
Mid Grey



Goosewing Grey

The applied colours may differ slightly from the examples shown above. Contact our customer services for a true colour sample or a sample of a special colour match.

System Design



Model Specification

Product: Flowshield ESD SL1000 Conductive

Finish: Gloss

Thickness: 1mm

Colour: _____

Preparatory work and application in accordance with manufacturers instructions.

Manufacturer: Flowcrete India Pvt Ltd

Telephone : Customer Service - +91 44 4202 9831

The installation should be carried out by a Flowcrete approved applicator.

Products Included in this System

Primer: 1st coat Flowprime @ 0.2 kg/m²

2nd coat Flowprime @ 0.15 kg/m² (porous substrates only)

Anti-Static Primer: Flowprime ESD Conductive @ 0.12 kg/m²

Test electrical resistance when primer cured.

Conductive Grid of 12 mm wide copper tape.

Topping: Flowshield ESD 1000 Conductive (density 1.5 kg/l) @ 1.5 kg/m²

Focus on the Floorzone

Flowcrete India Pvt Ltd is a division of the Flowcrete Group, world leaders in specialist industrial and commercial flooring. Systems available include: underfloor heating systems, floor screeds, surface damp proof membranes, decorative floor finishes, seamless terrazzo, car park deck waterproofing, tank lining systems... to name just a few.

Our objective is to satisfy your Floorzone needs.

Flooring Design Service

Special corporate colours and designs can be produced to special order.

Installation Service

The installation should be carried out by a Flowcrete approved applicator. Obtain details of our approved applicators by contacting our customer service team.

Substrate Requirements

Concrete or screed substrate should be a minimum of 25N/mm², free from laitance, dust and other contamination. The substrate should be dry to 75% RH as per BS8204 and free from rising damp and ground water pressure. Application of a 1mm self-leveling product also requires a smooth substrate.

Conductive tape

A network of 12 mm wide, self-adhesive, conductive copper tape is always recommended in combination with any Flowcrete anti-static flooring system. The copper tape must be applied directly onto the cured Flowprime, maximum 1 metre in from the perimeter of the application. Further strips of tape should be applied within this area every 3 metres. Special attention should be paid to tape areas passing over expansion or bay joints to ensure permanent electrical continuity. The applied tape should be secure and fully bonded to a confirmed earth point.

Technical Information

The figures that follow are typical properties achieved in laboratory tests at 20 °C and at 50% Relative Humidity.

Fire Resistance	BS476:Part 7 Surface spread of flame: Class 2 (indicative)
Slip Resistance Value (SRV)	Method described in BS 7976-2 Dry 67 Wet 26 (typical values for 4-S rubber slider)
Temperature Resistance	Softens Over 60 °C
Water Permeability	Nil - Karsten test (impermeable)
Vapour Permeability	4 gms / m ² / mm / 24 hours
Surface Hardness	180 secs. Koenig Hardness
Test Chemical Resistance	Go to www.flowcrete.in
Abrasion Resistance	Taber Abrader: 50mg loss per 1000 cycles (1kg Load using H17 wheels) BS8204: Part 2: Class AR2 60 N/mm ² (BS6319)
Compressive Strength	60 N/mm ² (BS6319)
Flexural Strength	40 N/mm ² (BS6319)
Tensile Strength	25 N/mm ² (BS6319)
Bond Strength	Greater than cohesive strength of 25N/mm ² concrete. >1.5 MPa.
Electrical Resistance	5 x 10 ⁴ – 1 x 10 ⁸ Ohms (to BS2050)
Toxicity	Taint free to sensitive foodstuffs.

Speed of Cure

	10°C	20 °C	30 °C
Light traffic	36 hrs	24 hrs	16 hrs
Full traffic	72 hrs	48 hrs	36 hrs
Full chemical cure	12 days	7 days	7 days

Aftercare - Cleaning and Maintenance

Clean regularly using a single or double headed rotary scrubber drier in conjunction with a mildly alkaline detergent. Ensure that the floor is not abraded during cleaning and that the cleaning agent does not deposit a layer of wax on the surface, as this will impair the anti-static properties of the floor. Visit our website for more information www.flowcrete.in.

Further Information

To ensure you are specifying a fit for purpose flooring for your project please consult our Technical Advisors on the number below or visit our website to register your interest in specifying one of the most durable floors on the market.

Important Note

Flowcrete's products are guaranteed against defective materials and manufacture and are sold subject to its standard Terms and Conditions of Sale, copies of which can be obtained on request.