

## Flowfresh ESD HF



### Description

Flowfresh ESD HF is a 6 – 9 mm heavy duty, chemical resistant antimicrobial treated antistatic polyurethane resin floor screed. Attractive fine textured coloured floor finish with a speckled effect on the surface.

### Uses

To provide an antistatic heavy duty, thermal shock resistant, hard-wearing floor finish with exceptional chemical resistance. Typical areas for use are wet and dry process areas where the floor is subjected to heavy traffic, impact and chemical attack.

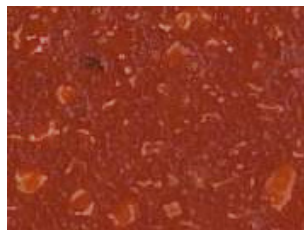
### Benefits

- Antistatic to BS 2050
- Contains Polygiene, an antimicrobial additive based on silver ion technology
- Very high chemical resistance
- Easy to clean and sterilise anti-slip surface, minimal joints
- Steam cleanable
- Non tainting, non dusting
- High abrasion resistance
- Withstands high mechanical stress
- Good alternative to expensive acid resistant tiles
- Low odour during application
- Positive slip resistance

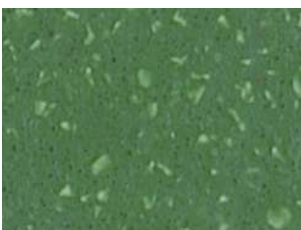
### Standard colour chart



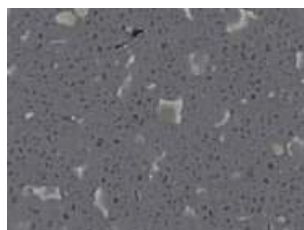
Mustard



Red



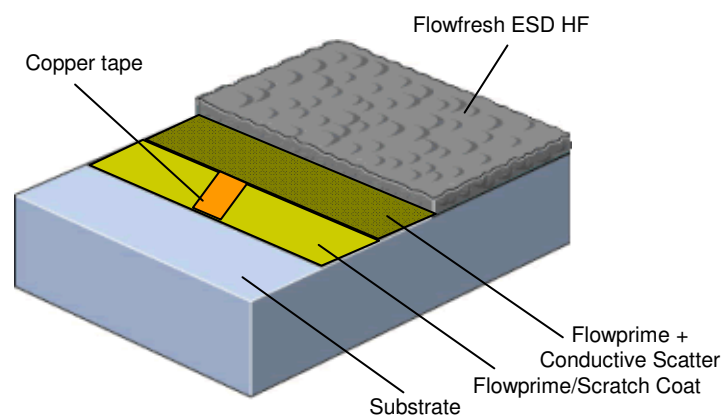
Dark Green



Mid Grey

The applied colours may differ slightly from the examples shown above. Contact our customer services for a true colour sample or a special colour match. Special corporate colours and designs can be produced to special order.

### System Design



## Model Specification

Product: Flowfresh ESD HF  
Finish: Matt  
Thickness: (8 mm)  
Colour:  
Manufacturer: Flowcrete India Pvt Ltd  
Telephone: Customer Service - +91 44 4202 9831  
Preparatory work and application in accordance with manufacturer's instructions.

## Substrate Requirements

Concrete or screed substrate should be a minimum of 25N/mm<sup>2</sup>, free from laitance, dust and other contamination. The substrate should be dry upto 75% RH as per BS 8204 and free from rising damp and ground water pressure. If no damp proof membrane is present, Hydraseal DPM can be incorporated directly beneath the Flowfresh ESD HF system.

## Products Included in this System

Primer: Flowprime/Scratch Coat @ 0.25 kg/m<sup>2</sup>  
Conductive Grid of 10 mm wide copper tape.  
Primer: Flowprime/Scratch Coat @ 0.25 kg/m<sup>2</sup>  
Scatter: Conductive Grade 30  
@ approx. 2 kg/m<sup>2</sup>  
Test electrical resistance when primer cured.  
Topping: Flowfresh ESD HF (Density 2.1 kg/l)  
@ 16.8 kg/m<sup>2</sup> for 8 mm

Flowfresh ESD HF is a self-sealing finish.

**Detailed application instructions are available upon request.**

## Conductive Grid

A network of 10 mm wide, self-adhesive, conductive copper tape is always recommended in combination with any Flowcrete antistatic flooring system. The copper tape must be applied directly onto the cured Flowprime/Scratch Coat, 150mm in from the perimeter of the application. A further grid of tape should be applied within this area at 3 m centres. Special attention should be paid to tape areas passing over expansion or bay joints to ensure permanent electrical continuity. The applied tape matrix should be secure and fully bonded to a confirmed earth point.

## Installation Service

The installation should be carried out by a Flowcrete approved applicator with a documented quality assurance scheme. Obtain details of our approved contractors by contacting our customer service team or enquiring via our web site at [www.flowcrete.in](http://www.flowcrete.in).

## Microbial / Fungal Resistance

The Polygiene antimicrobial additive incorporated into Flowfresh ESD HF provides control of most bacteria and fungi which come into contact with the floor.

## Environmental considerations

The finished system is assessed as non-hazardous to health and the environment. The long service life and seamless surface reduce the need for repairs, maintenance and cleaning. Environmental and health considerations are controlled during manufacture and application of the products by Flowcrete staff and fully trained and experienced contractors.

## 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 and corrosion protection systems to name just a few. Our corporate objective is to satisfy your flooring

needs.

## Technical Information

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

Electrical Resistance	<b>5 x 10<sup>4</sup> – 1 x 10<sup>8</sup> Ohms</b> (to BS 2050)
Fire Resistance	BS 476:Part 7 Surface Spread of Flame: <b>Class 2</b>
Slip Resistance	<b>Dry &gt;40 low slip potential</b> (typical values for 4-S rubber slider) Method described in BS 7976-2 (in accordance with HSE and UKSRG guidelines)
Impact Resistance	BS 8204-1 Cat: A (<0.5mm) ISO6272 <b>1 kg weight &gt;1.8m</b> <b>2 kg weight &gt;1.5 m</b>
Temperature Resistance	<b>Tolerant up to 120°C intermittent spillages or constant 105°C dry heat (at 9mm thickness)</b>
Water Permeability	Nil – Karsten test ( <b>impermeable</b> )
Chemical Resistance	Contact Technical Department <b>Excellent resistance to sugars and most acids (organic and inorganic)</b>
Abrasion Resistance	ASTM D4060 Taber Abrader: <b>25mg loss per 1000 cycles</b> (1kg load using H22 wheels) BS 8204-2: Class AR2
Compressive Strength	<b>&gt; 50 N/mm<sup>2</sup></b> (BS 6319)
Flexural Strength	<b>20 N/mm<sup>2</sup></b> (BS 6319)
Tensile Strength	<b>10 N/mm<sup>2</sup></b> (BS 6319)
Bond Strength	Greater than cohesive strength of 25 N/mm <sup>2</sup> concrete. <b>&gt; 1.5 MPa.</b>

Complies with BS 8204-6/FeRFA type 8.

## Speed of Cure

	10 °C	20 °C	30 °C
Light traffic	36 hrs	24 hrs	12 hrs
Full traffic	72 hrs	48 hrs	24 hrs
Full chemical cure	10 days	7 days	5 days

## Aftercare - Cleaning and Maintenance

Clean regularly using a single or double headed rotary scrubber drier in conjunction with a mildly alkaline detergent.

## 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.

## Further Information

To ensure you are specifying a fit for purpose flooring system 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.