

## Flowfresh MF ESD (4 mm)



### Description

Flowfresh MF ESD is an antistatic 4 mm heavy duty, chemical resistant, antimicrobial treated polyurethane resin floor finish. Attractive smooth matt coloured floor finish.

### Uses

To provide an antistatic heavy duty, 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.

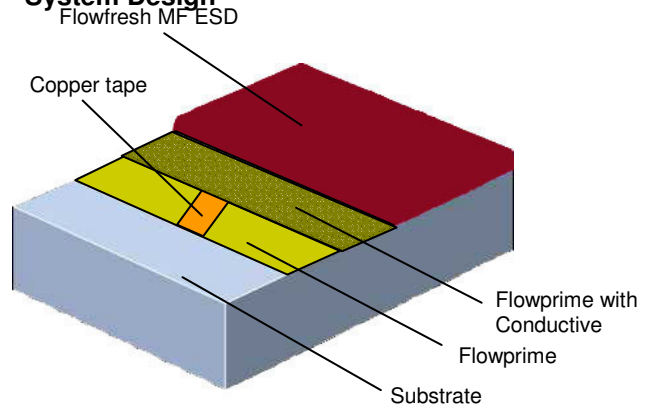
### Benefits

- Contains Polygiene, an antimicrobial additive based on silver ion technology.
- Very high chemical resistance.
- Antistatic to BS 2050
- Easy to clean and sterilise – minimal joints.
- High abrasion resistance.
- Low odour during application.

### Standard colour chart



### System Design



The applied colours will differ slightly from the examples shown above, due to printing variations. Contact our customer services for a true colour sample or a special colour match.

## Model Specification

Product: Flowfresh MF ESD  
Finish: Matt  
Thickness: 4mm  
Colour: As illustrated  
Preparatory work and application in accordance with supplier's instructions.

## Installation Service

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

## Products Included in this System

Primer: Flowprime @ 4 m<sup>2</sup>/ℓ  
Conductive Grid of 10 mm wide copper tape.  
Primer: Flowprime @ 4 m<sup>2</sup>/ℓ  
Scatter: Conductive Grade 50 @ 1.5 kg/m<sup>2</sup>  
Test electrical resistance when primer has cured.  
Topping: Flowfresh MF ESD (4ℓ/m<sup>2</sup>)  
Flowfresh MF ESD is a self-sealing finish.  
Detailed application instructions are available upon request.

## 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 to 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 Flowcrete MF ESD system.

## 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.

## 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, 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.

## Technical Information

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

Electrical Resistance:	5x10 <sup>4</sup> –1x10 <sup>8</sup> Ohms(to BS 2050)
Fire Resistance:	BS 476 Part 7 Spread of Flame: Class 2 (indicative)
Slip Resistance: (dependent upon texture achieved during laying)	Method described in BS 7976-2 (typical values for 4-S rubber slider) Dry >60 Wet >35
Impact Resistance:	BS 8204 Part1 Cat: A(<0.5mm) ISO 6272 1 kg weight >1.8m 2 kg weight >1.5 m
Temperature Resistance:	Tolerant up to 70 °C
Water Permeability:	Nil – Karsten Test (impermeable)
Vapour Permeability:	ASTM E96:90 5 g / m <sup>2</sup> / 24hrs (at 4 mm thick)
Chemical Resistance:	Go to <a href="http://www.flowcrete.com">www.flowcrete.com</a> Excellent resistance to sugars and most acids. (organic and inorganic)
Abrasion Resistance:	ASTM D4060 Taber Abrader: 30mg loss per 1000 cycles (1kg load using H22 wheels) BS 8204-2: Class AR2
Compressive Strength:	> 50 N/mm <sup>2</sup> (BS 6319)
Flexural Strength:	20 N/mm <sup>2</sup> (BS 6319)
Tensile Strength:	12 N/mm <sup>2</sup> (BS 6319)
Bond Strength:	Greater than cohesive strength of 25N/mm <sup>2</sup> concrete > 1.5 MPa.
Complies with BS 8204-6/FeRFA category 7.	

## 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.

## Life expectancy

7 – 10 years, dependant on thickness and subject to correct maintenance regime.