

Flowfresh ESD MF



Description

Flowfresh ESD MF is an antistatic, chemical resistant, antimicrobial, polyurethane resin floor system with a smooth matt coloured finish.

Flowfresh ESD MF incorporates Polygiene® - a performance based antimicrobial which inhibits the growth of bacteria, fungi, moulds and mildew.

Uses

Used to provide a hard wearing, seamless, antistatic floor finish with exceptional chemical resistance. Typical areas for use are dry or semi-wet process areas where the floor is subjected to heavy traffic, impact and chemical attack.

Benefits

- Meets BS2050 requirement
- Proven antimicrobial performance
- High chemical resistance
- Easy to clean and sterilise
- Non-tainting and non-dusting
- High abrasion resistance
- Low odour during application
- Monolithic
- Fast return to service

Standard Colour Chart



Rich Cream



Warm Buff



Coral Red



Clay

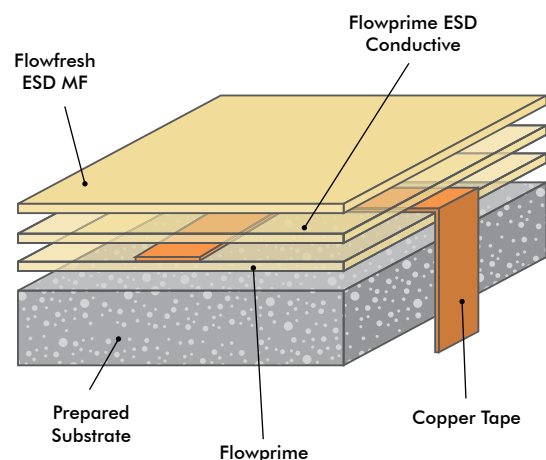


Pewter Grey



Signal Green

System Design



Model Specification

System: Flowfresh ESD MF
Finish: Matt
Thickness: 3mm
Preparatory work and application in accordance with manufacturer's instructions.

Substrate Requirements

Concrete or screed substrate should be a minimum of 25N/ mm², free from laitance, dust and other contamination. The substrate should be surface dry and free from rising damp and ground water pressure.

Products Included in this System

Flowprime
Copper Tape (conductive grid of 12 mm wide copper tape)
Flowprime ESD Conductive
Flowfresh ESD MF

Detailed application instructions are available upon request.

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 website at www.flowcreteasia.com

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.

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.

Microbial / Fungal Resistance

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

Conductive Tape

A network of 12 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, 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.

Colour Stability

Flowfresh ESD MF is not colour fast and may change colour over time (exhibits a yellowing effect). Colour change depends on the UV light and heat levels present and hence the rate of change cannot be predicted. This is more noticeable in light colours and blues but does not compromise the product's chemical resistance or physical characteristics. Consult our Technical Department for UV light stable specification.

Technical Information

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

Fire Resistance	B _{fl} - s1 (EN 13501-1)
Slip Resistance	Dry > 40, Wet depends on specification (in accordance with HSE and UKSRG guidelines)
Impact Resistance	15 Nm (EN ISO 6272)
Coefficient of Thermal Expansion	ASTM C531: 5.70 x 10 ⁻⁵ °C ⁻¹
Water Permeability	Nil-Karsten test (impermeable)
Vapour Permeability	ASTM E96:90 5g/m ² /24hrs
Chemical Resistance	Contact Technical Department. Excellent resistance to sugars and most acids (organic and inorganic)
Abrasion Resistance	Taber Abrader: 0.1g loss per 1000 cycles (1kg load using CS17 wheels)
Compressive Strength	> 50 N/mm ² (EN 13892-2)
Flexural Strength	20 N/mm ² (EN 13892-2)
Tensile Strength	12 N/mm ² (BS6319)
Bond Strength	Greater than cohesive strength of 25 N/mm ² concrete. > 1.5 MPa.
Toxicity (when cured)	Taint Free to sensitive foodstuffs
Electrical Resistance	5 x 10 ⁴ – 1 x 10 ⁸ Ohms (to BS 2050)

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	6 days

Customer Service

For more information regarding this product please contact your local Flowcrete office:

Flowcrete Asia	+60 3 6277 9575
Flowcrete Hong Kong	+852 2795 0478
Flowcrete China	+86 10 8472 1912
Flowcrete Thailand	+66 2539 3424
Flowcrete Indonesia	+62 21 252 3201
Flowcrete Vietnam	+84 8 6287 0846

Visit our website for more locations.

Further Information

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