

Flowfresh MF ESD (4mm)

An antistatic 4mm heavy-duty chemical resistant, antimicrobial polyurethane resin floor finish.



Electrostatic Dissipative:

Antistatic to BS 2050



Chemical Resistant:

Protects against the majority of acids used in manufacturing processes.



Hygienic:

Contains Polygiene® - an antimicrobial additive that kills up to 99.9% bacteria.



Abrasion Resistant:

Holds its own against impact, traffic and chemical attack.



Easy to Clean:

Minimal joints makes this flooring easy to sterilise.



Low Odour:

Improved air quality during installation and beyond.



The applied colours may differ from the examples shown. For a full colour chart and samples, contact your regional Flowcrete office.

November 2021

Technical Profile

ELECTRICAL RESISTANCE

5×10^4 to 1×10^8 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 Part 1 Cat: A (<0.5mm)

ISO 6272 1kg weight > 1.8m
2kg weight > 1.5m

TEMPERATURE RESISTANCE

Tolerant up to 70°C

WATER PERMEABILITY

Nil – Karsten test (impermeable)

VAPOUR PERMEABILITY

ASTM E96:90 5g/m² / 24 hrs at 4mm thick

CHEMICAL RESISTANCE

Excellent resistance to sugars and most acids (organic and inorganic). Refer to chemical resistance guide.

ABRASION RESISTANCE

ASTM D4060 Taber Abrader: 30mg loss per 1000 cycles (1kg load using H22 wheels) BS 8204-2 : Class AB2

COMPRESSIVE STRENGTH

>50 N/mm² (BS 6319)

FLEXURAL STRENGTH

20 N/mm² (BS 6319)

TENSILE STRENGTH

12 N/mm² (BS 6319)

BOND STRENGTH

Greater than cohesive strength of 25 N/mm² concrete >1.5 MPa

Complies with BS 8204-6 / FeRFA Category 7

* These figures are typical properties achieved in laboratory tests at 20°C and at 50% Relative Humidity.

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

Model Specification:

Product	Flowfresh MF ESD
Finish	Matt
Thickness	4mm

Preparatory work and application in accordance with manufacturer's instructions.

Products Included in this System

Primer	Flowprime
	Conductive grid of 10mm wide copper tape
Primer	Flowprime
Scatter	Conductive Grade 50 at 1.5kg/m ²
	Test electrical resistance when primer has cured
Topping	Flowfresh MF ESD
	Flowfresh MF ESD is a self-sealing finish. Detailed application instructions are available on request.

Substrate Requirements

Concrete or screed substrate should be a minimum of 25N/mm², and maintain a minimum tensile strength of 1.5 MPa, free from laitance, dust and other contamination. The substrate should have a moisture content of no more than 5%.

Conductive Grid

A network of 10mm 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 3m 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 an approved contractor with a documented quality assurance scheme. Obtain details of our approved contractors by contacting our customer service team.

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 and maintenance. Environmental and health considerations are controlled during manufacture and application of the products by Flowcrete staff and fully trained application teams.

Focus on the Floorzone

Flowcrete is a market leader in specialist industrial and commercial flooring. Systems available include: floor screeds, surface damp proof membranes, decorative flooring, seamless terrazzo, car park deck coatings, tank lining systems ... to name just a few. Our objective is to satisfy your Floorzone needs.

Polygiene® and HACCP International

Flowfresh flooring systems are antimicrobial to ISO 22196 standard, owing to the inclusion of Polygiene®, an antimicrobial additive incorporated in the formulation. The Flowfresh range of floor systems is HACCP International certified as safe for use in food environments.

Warranty

Flowcrete products are guaranteed against defective materials and manufacture and are sold subject to our standard "Warranty, Terms and Conditions of Sale", copies of which can be obtained on request. Warranty does not cover suitability, fit for purpose or any consequential or related damages. Please review warranty in detail before installing the products.