

## Flowfresh ESD MF

A smooth, antimicrobial treated industrial floor based on polyurethane resin with the addition of cement aggregate. It is an antistatic flooring system with high mechanical, thermal and chemical resistance.



### Electrostatic Dissipative:

Used in areas where it is necessary to disperse static electricity



### Antimicrobial properties:

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



### Hygiene:

HACCP International Certified



### Temperature Resistant:

Tolerant to heat up to +60°C

## Technical Information<sup>1</sup>

### ANTISTATIC PROPERTIES:

< 10° Ω IEC 61340-5-1

### REACTION TO FIRE

B<sub>f</sub>-s1 EN 13501-1

### SLIP RESISTANCE<sup>2</sup>

Pendulum Slip Test  
Wet > 40 EN 13036-4

### VAPOR PERMEABILITY

5 g/m<sup>2</sup>/mm/24 h (4 mm) ASTM E96:90

### TEMPERATURE RESISTANCE

Up to +60°C

### WATER PERMEABILITY

Karsten test - Nil (Impermeable)

### WEAR RESISTANCE

Taber Abrader  
30 mg/wheel H22/1000 g  
/1000 cycles PN-EN ISO 5470-1

### COMPRESSIVE STRENGTH

> 50 N/mm<sup>2</sup> EN 13892-2

### FLEXURAL STRENGTH

20 N/mm<sup>2</sup> EN 13892-2

### TENSILE STRENGTH

12 N/mm<sup>2</sup> BS 6319

### IMPACT RESISTANCE

Category: A (< 0,5 mm)  
1 kg > 1,8 m  
2 kg > 1,5 m EN ISO 6272-1

### BOND STRENGTH

> 1,5 MPa - Assumes concrete compressive strength is greater than 25 N/mm<sup>2</sup> EN 13892-8



Green



Mustard



Grey



Red

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

<sup>1</sup>The figures in the table beside are typical properties achieved in laboratory tests – these results may vary depending on the conditions on the installation site. <sup>2</sup>The final anti-slip properties of the floor are influenced by the application method, the size and shape of the aggregate used for the topcoat (aggregate recommendations available from CPG Eastern Europe), the degree of abrasion, maintenance and the nature of the dirt.

## Model Specification

<b>System:</b>	Flowfresh ESD MF
<b>Finish:</b>	Matt
<b>Thickness:</b>	Approx. 4,0 mm
<b>Colour:</b>	According to the catalog
<b>Producer:</b>	CPG Europe
<b>Supplier:</b>	Tremco CPG Poland Sp. z o.o.
<b>Telephone:</b>	+48 22 879 89 07

## Installation Service

The installation should be carried out by a Flowcrete approved contractors with a documented quality assurance scheme. Obtain details of our approved contractors by contacting CPG Eastern Europe or enquiring via our website at [www.flowcrete.com.pl](http://www.flowcrete.com.pl).

## Products Included in this System

<b>Primer<sup>3</sup>:</b>	Peran STC (Protop 1000); Peran Copperstrip
<b>Primer with scatter:</b>	Peran ESD Primer/ Peran ESD Primer WB; Peran ESD Primer Sand
<b>Topping:</b>	Flowfresh ESD MF

<sup>3</sup> If other resins are used contact CPG Eastern Europe for further details.

Detailed application instructions are available upon request.

<b>SPEED OF CURE</b>	<b>10 °C</b>	<b>20 °C</b>	<b>30 °C</b>
Light Traffic	36 h	24 h	12 h
Full traffic	72 h	48 h	24 h
Full chemical cure	10 days	7 days	5 days

## Microbial / Fungal Resistance

The Polygiene antimicrobial additive incorporated into Flowfresh MF provides control of most bacteria and fungi which come into contact with the floor. Antimicrobial Active substance: Silver biocide Tested: ISO 22196/JIS Z2801.

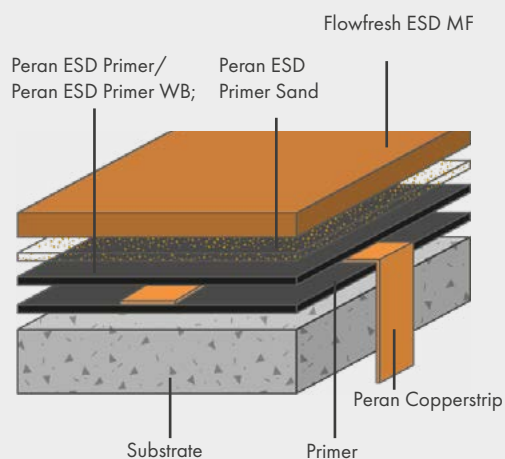
## Substrate Requirements

Concrete or screed substrate should be class min. C20/25, a minimum bond strength of 1,5 MPa (pull-off test), surface even, clean, free from laitance, dust and other contamination. All damages in the substrate should be repaired prior to applying the flooring. The substrate should be dry up to 75% RH as per BS 8204 (5% humidity measured by the Tramex method) and free from rising damp and ground water pressure. In case of higher humidity, one should use Hydraseal DPM as primer. Details to be found in the *Flowcrete Resin Flooring Substrate Requirements*.

## Aftercare – Cleaning and Maintenance

Clean regularly manually or using a machine in conjunction with a mildly alkaline detergent. Flowcrete Flooring Cleaning Instruction available upon request.

## System Design



## Environmental Considerations

The finished system is assessed as non-hazardous to health and the environment. The long service life and seamless, impermeable surface with perfect adhesion to the substrate reduce the need for repairs and maintenance.

VOC content < 50 g/l.

Technical information, recommendations and instructions concerning the product use, storage and maintenance included in this System Data Sheet are based on Tremco CPG Poland Sp. z o.o. (further related as „CPG Polska”) knowledge and experience, reflecting the best acknowledged way of using the material for a given moment. Taking into consideration other factors that are beyond the producer’s control, including differences in quality of substrates, tools and other complementary materials, weather conditions, proper installation and also cleaning and maintenance, CPG Polska cannot take responsibility in case of failure to conform with information and instructions included in this System Data Sheet or, respectively, written recommendations from authorized CPG Polska representatives. One should always conform with up-to-date norms and building principles, and also safety, hygiene and health protection rules according to the information included in Material Safety Data Sheets and also on the products packaging. This System Data Sheet replaces all previous versions. In order to receive up-to-date System Data Sheets contact CPG Polska.

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