

# Flowcrete

for the world at your feet



## FLOWFRESH

Antimicrobial flooring for:

- ✓ Food & Beverage
- ✓ Meat & Fish
- ✓ Bakeries
- ✓ Food Preparation
- ✓ Healthcare
- ✓ Pharmaceutical



# Flowfresh Range Technical Profile



Flowfresh represents a new generation of performance antimicrobial flooring based on the use of silver, in partnership with Polygiene®, that kills up to 99.9% of bacteria on contact.

Silver is a natural element known for its ability to purify and protect from bacterial infections – and provides an attractive, environmentally friendly alternative to chemically manufactured antimicrobials.

**HACCP International certified** as safe for use in food processing environments, Flowfresh offers total protection. A continuous migration of silver ions are delivered to the contact surface from where they attack gram positive and gram negative bacteria and viruses. This technology remains active for the lifetime of the floor, even when damaged or worn unlike coatings or surface treatments.

Flowfresh meets the **ISO 22196** standard of evaluating the antimicrobial activity of antimicrobial treated plastics and other non-porous surfaces.



## Application Suitability



Food & Beverage



Meat & Fish



Bakeries & Confectionery



Food Preparation & Kitchens



Hospitals & Healthcare



Pharmaceutical Environments

## Resistance Chart

BACTERIAL RESISTANCE			CHEMICAL RESISTANCE*				
SARS-CoV	✓	Salmonella Typhi	✓	Hydrochloric Acid	✓	Methanol	✓
MRSA	✓	Enterococcus Faecalis	✓	Sulphuric Acid	✓	Sugar Syrups	✓
E-coli	✓	Staphylococcus Aureus	✓	Citric Acid	✓	Caustic Soda	✓
Listeria	✓	Streptococcus Pyogenes	✓	Acetic Acid	✓	Petrol	✓
C.difficile	✓	Pseudomonas Aeruginosa	✓	Lactic Acid	✓	Oil Ingredients	✓
Proteus Vulgaris	✓	Campila Bacta	✓	Phosphoric Acid	✓	Detergents	✓

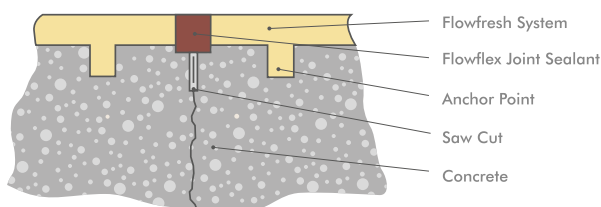
\*A chemical resistance chart is available on request.

# Complementary Products

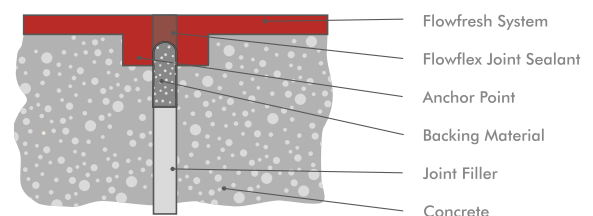
	DESCRIPTION	USES
<b>Isopol SBR</b>	A styrene butadine (SBR) polymer latex screed additive and bonding agent.	Used to produce polymer modified wearing screeds for heavy duty applications.
<b>Flowprime</b>	A 2-component low viscosity epoxy resin primer for cementitious substrates.	Applied to screeds prior to overcoating with resin floor finishes.
<b>Flowfresh Primer</b>	3-component, polyurethane scratch coat/primer for concrete and cementitious substrates. Flowfresh Primer will bond to surface dry substrates that have a Relative Humidity up to 97% (to BS 8204).	For priming concrete and screeds, prior to overcoating with the Flowfresh flooring system.
<b>Peran TCW</b>	A thixotropic 2-component epoxy topcoat that produces a hard impermeable and repellent surface with good chemical resistance.	Applied to skirting and covers as a thixotropic seal coat.
<b>Hydraseal DPM</b>	A 2-component, solvent-free, epoxy resin prime for damp cementitious substrates with a Relative Humidity up to 100% (BS 8204).	Used as a primer for very damp substrates (with no visible surface moisture) where other primers are not suitable.
<b>Flowfresh HF Cove</b>	4-component, solvent-free, polyurethane concrete cove for the Flowfresh range of products containing antimicrobial additive, Polygiene®.	Used as footing/moulding compound to form coves for the Flowfresh SL, MF, RT and HF systems.
<b>Flowfresh Grout</b>	A 3-component, water based polyurethane grout with a coloured finish. Flowfresh grout will bond to surface dry substrates with a Relative Humidity of up to 97% (to BS 8204).	Flowfresh grout is applied to Mondéco TZ after the grinding process.
<b>Flowseal PU Satin</b>	A 2-component, water-based, aliphatic clear sealer with a satin finish.	Applied as a UV stable, abrasion resistant seal coat.
<b>Flowseal PU Matt Ultra</b>	As a protective coating for Flowcrete screeds, toppings and third party resilient floorings.	Applied as a UV stable, abrasion resistant seal coat.

## Joint Details

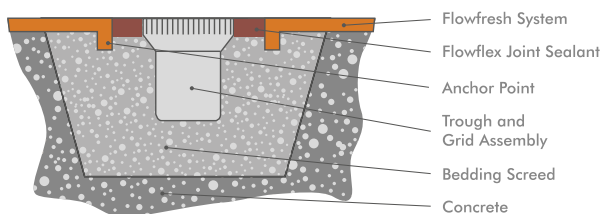
Typical (induced) Movement Joint



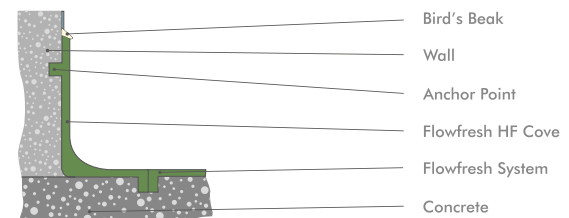
Typical (expansion) Movement Joint



Typical Drainage Chancel Arrangement



Typical Floor to Wall Detail



# Flowfresh SL & MF (2, 4–6mm)

Smooth, matt polyurethane screeds for use in dry areas subject to light-medium traffic.

Best suited to packaging areas and processing zones subject to light-medium foot and wheeled traffic, these trowel applied systems deliver a seamless joint-free finish.



### Chemical Resistant:

Protects against the majority of acids used in manufacturing processes.



### Abrasion Resistant:

Holds its own against impact, traffic and chemical attack.



### Hygienic:

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



### Easy to Clean:

Minimal joints makes this flooring easy to sterilise.



### Low Odour:

Improved air quality during installation and beyond.

## Colours



Cream



Ochre



Red



Mustard



Mid Grey



Dark Green

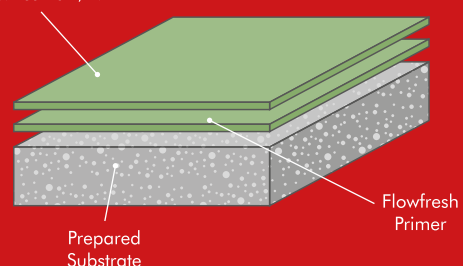
The applied colours may differ from the examples shown. For a full colour chart and samples, contact your local Flowcrete office.

## Technical Profile

TEMPERATURE RESISTANCE	
SL (2mm)	MF (4–6mm)
-10°C to 50°C (sustained dry heat) Up to 60°C (intermittent spillages)	-20°C to 60°C (sustained dry heat) Up to 70°C (intermittent spillages)
WATER PERMEABILITY	
Karsten Test	Nil-Impermeable
FIRE RESISTANCE	
BS476-7	Surface spread of flame: Class 2 (Indicative)
SLIP RESISTANCE	
BS 7976-2	Dry >40 low slip potential
COMPRESSIVE STRENGTH	
SL	MF
BS6319 - >50 N/mm <sup>2</sup>	BS6319 - 55.9 N/mm <sup>2</sup>
FLEXURAL STRENGTH	
SL	MF
BS6319 - 20 N/mm <sup>2</sup>	BS6319 - 20.3 N/mm <sup>2</sup>
TENSILE STRENGTH	
SL	MF
BS6319 - 12 N/mm <sup>2</sup>	BS6319 - 7.7 N/mm <sup>2</sup>
BOND STRENGTH	
EN 13892-8	B2.8*

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

Flowfresh SL / MF



\*Assumes concrete compressive strength is greater than 25N/mm<sup>2</sup>

\*\* Cure times at temperatures between 0-30°C can be achieved by altering the quantity of catalyst used. For applications falling outside of this temperature range, please contact your local Flowcrete Technical Department.



## Application Suitability

Light - Medium Traffic 2mm	✓
Medium - Heavy Traffic 4-6mm	✓
Industrial Kitchens / Semi Dry Areas	✓
Packaging Areas	✓
Loading Bays	✓
Laboratories / Quality Control	✓
Dispensaries	✓
Cold Stores / Freezers	



## Application Suitability

Dry Process (Med/Heavy Traffic)	✓
Wet Process (Med/Heavy Traffic)	✓
Industrial Kitchens / Wash Areas	✓
Packaging Areas	
Chemical / Solvent Stores	✓
Loading Bays	✓
Laboratories / Quality Control	
Dispensaries	
Cold Stores / Freezers	✓



# Flowfresh HF & RT (6-9mm)

Slip-resistant polyurethane screeds for use in wet areas subject to high volumes of traffic.

Best suited to wet processing zones subject to high volumes of foot and wheeled traffic, these trowel applied 6-9mm systems deliver a seamless joint-free matt finish.



### Heat Resistant:

Resistant to temperatures of up to 120°C.



### Slip Resistant:

Impressive anti-slip profile in dry and wet conditions.



### Hygienic:

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



### Chemical Resistant:

Protects against the majority of acids used in manufacturing processes.



### Abrasion Resistant:

Holds its own against impact, traffic and chemical attack.

## Colours



Cream



Ochre



Red



Mustard



Mid Grey



Dark Green



Dark Grey



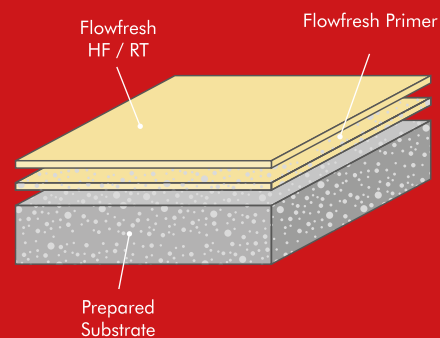
Gentian Blue

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

## Technical Profile

TEMPERATURE RESISTANCE	
HF (at 9mm)	RT (at 9mm)
-40°C to 105°C (sustained dry heat) Up to 120°C (intermittent spillages)	-40°C to 105°C (sustained dry heat) Up to 120°C (intermittent spillages)
WATER PERMEABILITY	
Karsten Test	Nil-Impermeable
FIRE RESISTANCE	
EN 13501-1	B <sub>fl</sub> - s1
SLIP RESISTANCE	
BS 7976-2	Dry >40 low slip potential
COMPRESSIVE STRENGTH	
BS6319	>50 N/mm <sup>2</sup>
FLEXURAL STRENGTH	
BS6319	20 N/mm <sup>2</sup>
TENSILE STRENGTH	
BS6319	10 N/mm <sup>2</sup>
BOND STRENGTH	
EN 13892-8	B2.8*

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



\*Assumes concrete compressive strength is greater than 25N/mm<sup>2</sup>



Flowfresh HF LT is available with improved fluidity at low temperatures (<15°C)

\*\* Cure times at temperatures between 0-30°C can be achieved by altering the quantity of catalyst used. For applications falling outside of this temperature range, please contact your local Flowcrete Technical Department.

## Colours



Cream



Ochre



Red



Mustard



Mid Grey



Dark Green



## Technical Profile

### TEMPERATURE RESISTANCE (6mm)

Up to 70°C (sustained dry heat)  
Up to 90°C (intermittent spillages)

### WATER PERMEABILITY

Karsten Test

Nil-Impermeable

### SLIP RESISTANCE

BS 7976-2

Dry >40 low slip potential

### COMPRESSIVE STRENGTH

BS6319

>50 N/mm<sup>2</sup>

### FLEXURAL STRENGTH

BS6319

20 N/mm<sup>2</sup>

### TENSILE STRENGTH

BS6319

10 N/mm<sup>2</sup>

### BOND STRENGTH

EN 13892-8

B2.8

## Flowfresh SR (5–6mm)

Flowfresh SR is a heavy duty polyurethane screed with an anti-slip finish.

Suited to all zones subject to heavy foot and wheeled traffic, such as wet processing areas or food preparation zones, this trowel applied 5mm to 6mm system delivers an anti-slip floor finish.



Slip resistant for safety underfoot



Hygienic antimicrobial additive



Heat resistant up to 90°C



Resistant to oils, sugar and chemicals



# Flowfresh SRQ (5-6mm)

A heavy duty decorative screed with a coloured quartz aggregate that provides anti-slip properties.

Suited to all zones subject to heavy foot and wheeled traffic, such as wet processing areas or food preparation zones, this trowel applied system delivers a decorative joint-free floor finish.



### Decorative:

Offers an attractive finish to enhance the working environment.



### Hygienic:

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



### Easy to clean:

The joint-free floor finish is hygienic and low maintenance.



### Chemical Resistant:

Protects against the majority of acids used in manufacturing processes.



### Slip Resistant:

Impressive anti-slip profile in dry and wet conditions.

## Colours



Blue - 7200



Cream - 7700



Yellow - 7400



Green - 7300



Grey - 7100



Grey - 7120



Grey - 7600



Red - 7500



Blue - 7750



Grey - 7770

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

## Technical Profile

### TEMPERATURE RESISTANCE

Up to 50°C (sustained dry heat)

### FIRE RESISTANCE

EN 13501-1

B<sub>f</sub>-s1

### WATER PERMEABILITY

Karsten Test

Nil-Impermeable

### VAPOUR PERMEABILITY

ASTM E96:90

3 g/m<sup>2</sup>/24hrs (at 9mm thick)

### SLIP RESISTANCE

BS 7976-2

Dry >40 low slip potential

### COMPRESSIVE STRENGTH

BS6319

>50 N/mm<sup>2</sup>

### FLEXURAL STRENGTH

BS6319

20 N/mm<sup>2</sup>

### TENSILE STRENGTH

BS6319

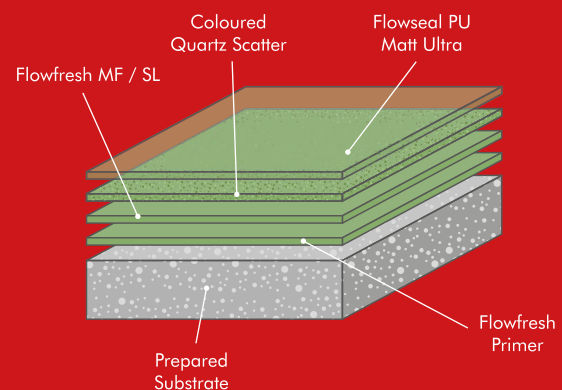
10 N/mm<sup>2</sup>

### BOND STRENGTH

EN 13892-8

B2.8\*

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



\*Assumes concrete compressive strength is greater than 25N/mm<sup>2</sup>

\*\* Cure times at temperatures between 0-30 °C can be achieved by altering the quantity of catalyst used. For applications falling outside of this temperature range, please contact your local Flowcrete Technical Department.

## Application Suitability

Dry Process (Med/Heavy Traffic)	
Wet Process (Med/Heavy Traffic)	
Industrial Kitchens / Wash Areas	
Packaging Areas	✓
Chemical / Solvent Stores	
Loading Bays	
Laboratories / Quality Control	✓
Dispensaries	✓
Cold Stores / Freezers	



# Mondéco TZ (7mm)

A high temperature resistant, steam cleanable polyurethane terrazzo finish, ideal for floors subject to hot fluid spillages.

Suited for pharmaceutical, food and chemical process areas where floors are subject to steam cleaning, heavy traffic and chemical attack.



### Durable:

The durable properties of this range ensure a longer floor life span.



### Hygienic:

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



### Decorative:

Offers an attractive finish to enhance the working environment.



### Heat Resistant:

Resistant to temperatures of up to 105°C.



### Chemical Resistant:

Protects against the majority of acids used in manufacturing processes.



### Slip Resistant:

Impressive anti-slip profile in dry and wet conditions.

## Colours



Cream



Mustard



Dark Green



Ochre



Mid Grey



Tile Red

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

## Technical Profile

### TEMPERATURE RESISTANCE

From -40°C to 105°C (sustained dry heat)  
Up to 120°C (intermittent spills)

### WATER PERMEABILITY

Karsten Test Nil-Impermeable

### FIRE RESISTANCE

BS476-7 Surface spread of flame:  
Class 2 (Indicative)

### SLIP RESISTANCE

BS 7976-2 Dry >40 low slip potential

### ABRASION RESISTANCE

Taber Abrader 20mg loss per 1000 cycles  
(1kg load using H22 wheels)

### COMPRESSIVE STRENGTH

BS6319 >55 N/mm<sup>2</sup>

### FLEXURAL STRENGTH

BS6319 >20 N/mm<sup>2</sup>

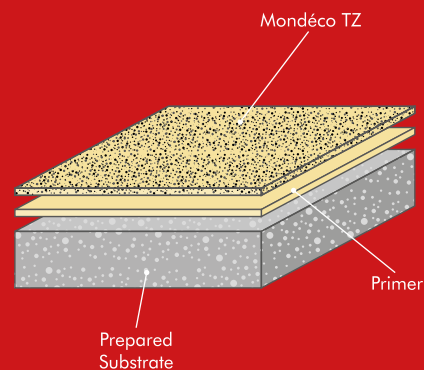
### TENSILE STRENGTH

BS6319 >8 N/mm<sup>2</sup>

### BOND STRENGTH

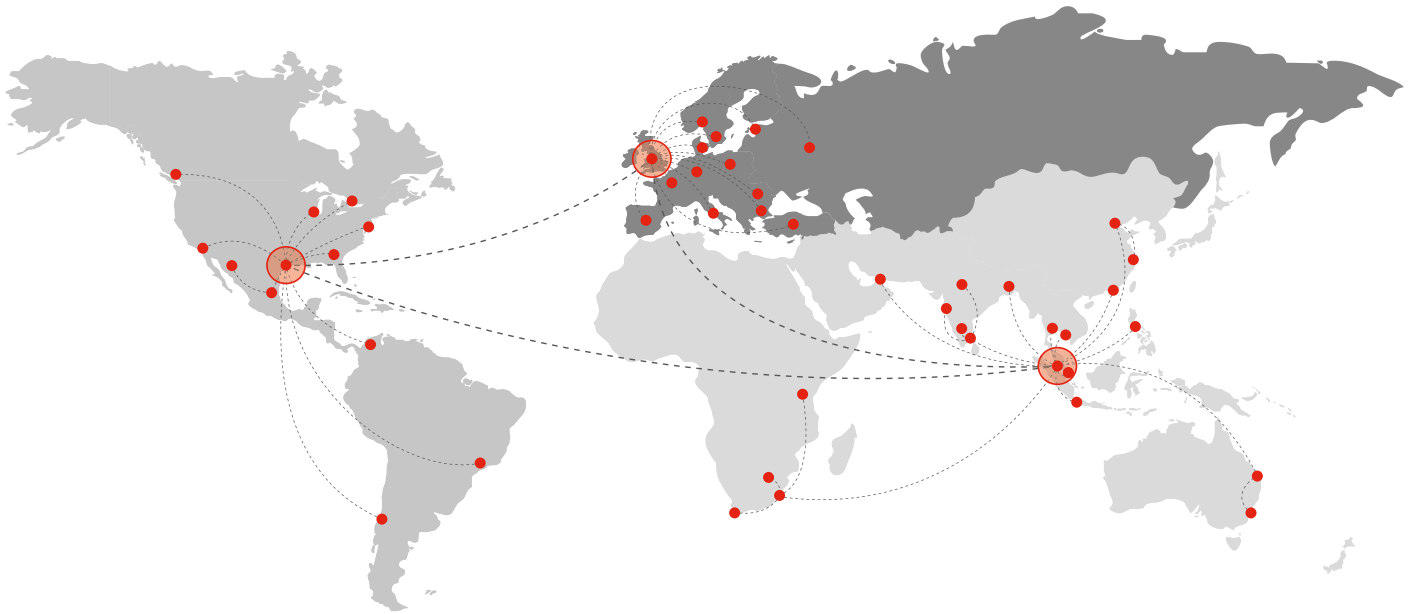
Greater than cohesive strength of 25N/mm<sup>2</sup> concrete.  
>1.5 MPa\*

SPEED OF CURE**	10°C	20°C	30°C
Light Traffic	24 hrs	16 hrs	10 hrs
Full Traffic	72 hrs	48 hrs	36 hrs
Full Chemical Cure	12 days	7 days	7 days



\*Assumes concrete compressive strength is greater than 25N/mm<sup>2</sup>

\*\* Cure times at temperatures between 0-30°C can be achieved by altering the quantity of catalyst used. For applications falling outside of this temperature range, please contact your local Flowcrete Technical Department.



## Flowcrete Group

Flowcrete Group Ltd is the world's leading specialist in seamless resin flooring, screeds and other coating technologies, with operations across five continents.

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