

# 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.

## Application Suitability



Food & Beverage



Meat & Fish



Bakeries



Food Preparation



Healthcare



Pharmaceutical

## Resistance Chart

BACTERIAL RESISTANCE				CHEMICAL RESISTANCE*			
SARS-CoV	✓	Salmonella Typhi	✓	Hydrochloric Acid 10%	✓	Methanol	✓
MRSA	✓	Enterococcus Faecalis	✓	Sulphuric Acid 10%	✓	Sugar Syrups	✓
E-coli	✓	Staphylococcus Aureus	✓	Citric Acid 10%	✓	Caustic Soda	✓
Listeria	✓	Streptococcus Pyogenes	✓	Acetic Acid 5%	✓	Petrol	✓
C.difficile	✓	Pseudomonas Aeruginosa	✓	Lactic Acid 10%	✓	Oil Ingredients	✓
Proteus Vulgaris	✓	Campila Bacta	✓	Phosphoric Acid 5%	✓	Detergents	✓

\*A chemical resistance chart is available on request.

# System Components

	DESCRIPTION	USES
<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 95% (to BS 8204).	For priming concrete and screeds, prior to overcoating with the Flowfresh flooring system.
<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 FCUV</b>	3 component, UV light stable, semi-gloss polyurethane cement sealer with low odour.	Used as a UV stable sealer as a finish to Flowfresh flooring systems e.g. Flowfresh SR system.
<b>Flowseal Ultra</b>	2 component, fast curing, UV light stable, gloss sealer with low odour.	Used as a fast curing UV stable sealer or receiving coat for flake and quartz broadcast systems.
<b>Flowseal Ultra EWT</b>	2 component, fast curing, UV light stable, polyurea gloss sealer with low odour.	Used as a fast curing UV stable sealer or receiving coat for flake and quartz broadcast systems. The Flowseal Ultra EWT has extended working time as compared to the Flowseal Ultra.



# Flowfresh SL\* & MF\*

Self-smoothing 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 smooth matt finish.



### Hygienic:

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



### Heat Resistant:

Resistant to temperatures of up to 90°C.



### Chemical Resistant:

Protects against the majority of acids used in manufacturing processes.



### Abrasion Resistant:

Holds its own against impact, traffic and chemical attack.



### UV Stable:

UV light stable grade is available. Prevents from yellowing effect.

## Colours



Grey



Buff



Mustard



Tile Red



Green



Light Blue



Light Grey



Silver Grey



Cream



Goosewing Grey

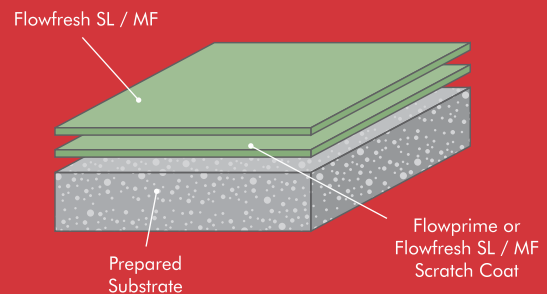
The applied colours may differ from the examples shown. For a full colour chart and samples, contact your local Flowcrete office.

\* ESD grade available.

## Technical Profile

TEMPERATURE RESISTANCE	
SL	MF
2mm: From 5°C to 65°C	3mm: From -5°C to 70°C 4mm: From -15°C to 90°C
WATER PERMEABILITY	
Karsten Test	Nil (Impermeable)
FIRE RESISTANCE	
BS476-7	Surface spread of flame: Class 2 (Indicative)
SLIP RESISTANCE	
TRRL Pendulum Slip Test	Dry >70, Wet >25
ABRASION RESISTANCE	
Taber Abrader	0.1g loss per 1000 cycles (1kg load using CS17 wheels)
COMPRESSIVE STRENGTH	
BS6319	>55 N/mm <sup>2</sup>
FLEXURAL STRENGTH	
BS6319	>20 N/mm <sup>2</sup>
TENSILE STRENGTH	
BS6319	>12 N/mm <sup>2</sup>
BOND STRENGTH	
ASTM D4541 (Pull-Off Test)	>1.5 MPa*

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



\*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 3-4mm	✓
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\*

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.



### Hygienic:

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



### Heat Resistant:

Resistant to temperatures of up to 120°C.



### Chemical Resistant:

Protects against the majority of acids used in manufacturing processes.



### Slip Resistant:

Impressive anti-slip profile in dry and wet conditions.



### Abrasion Resistant:

Holds its own against impact, traffic and chemical attack.

## Colours



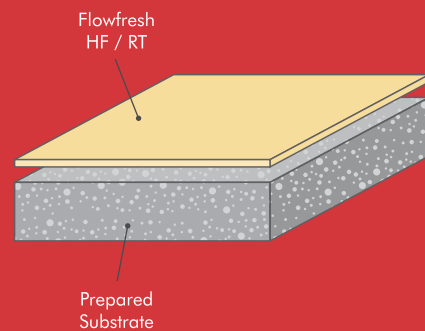
The applied colours may differ from the examples shown. For a full colour chart and samples, contact your local Flowcrete office.

\* ESD grade available.

## Technical Profile

TEMPERATURE RESISTANCE	
From -25°C to 100°C (at 6mm) From -45°C to 120°C (at 9mm)	
WATER PERMEABILITY	
Karsten Test	Nil (Impermeable)
FIRE RESISTANCE	
BS476-7	Surface spread of flame: Class 2 (Indicative)
SLIP RESISTANCE	
TRRL Pendulum Slip Test	Dry >80, Wet >35
ABRASION RESISTANCE	
Taber Abrader	0.12g loss per 1000 cycles (1kg load using CS17 wheels)
COMPRESSIVE STRENGTH	
BS6319	>60 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	
ASTM D4541 (Pull-Off Test)	>1.5 MPa*

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



\* 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.

# Flowfresh SR

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 3mm to 4mm system delivers an anti slip floor finish.



### Hygienic:

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



### Heat Resistant:

Resistant to temperatures of up to 90°C.



### Chemical Resistant:

Protects against the majority of acids used in manufacturing processes.



### Slip Resistant:

Impressive anti-slip profile in dry and wet conditions.



### Abrasion Resistant:

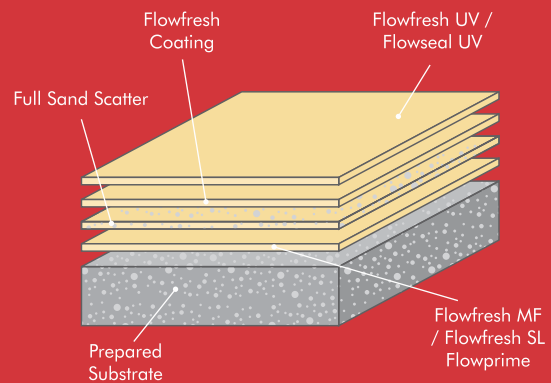
Holds its own against impact, traffic and chemical attack.



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 -15°C to 90°C	
WATER PERMEABILITY	
Karsten Test	Nil (Impermeable)
FIRE RESISTANCE	
BS476-7	Surface spread of flame: Class 2 (Indicative)
SLIP RESISTANCE	
TRRL Pendulum Slip Test	Dry >80, Wet >45 (Aggregate dependant)
ABRASION RESISTANCE	
Taber Abrader	0.1g loss per 1000 cycles (1kg load using CS17 wheels)
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>



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

## Colours



Cream



Buff



Red



Mustard

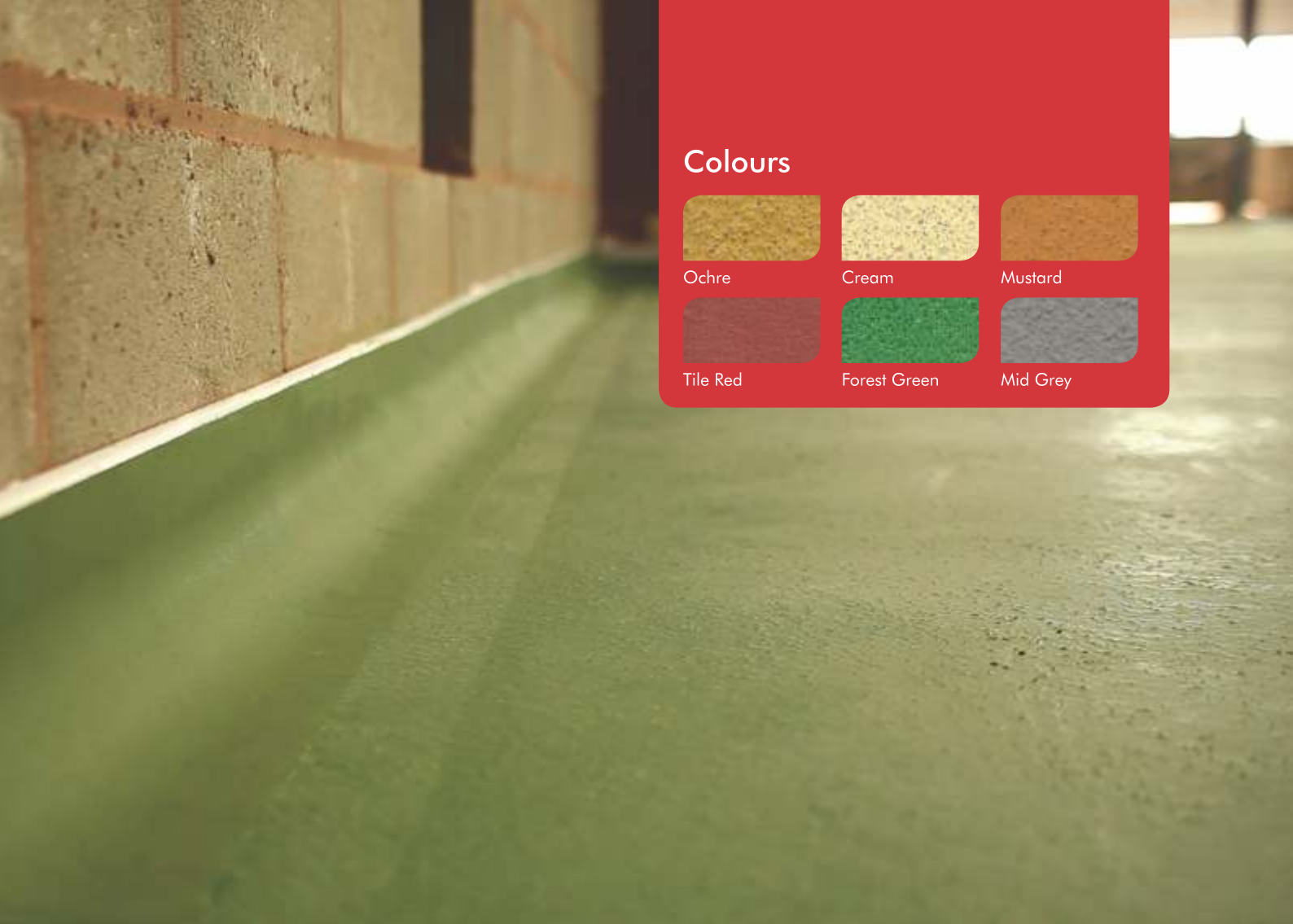


Grey



Green





## Colours



Ochre



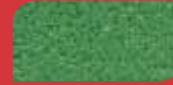
Cream



Mustard



Tile Red



Forest Green



Mid Grey

## Flowfresh WR

A heavy duty chemical resistant antimicrobial treated polyurethane coving and wall rendering mortar.

The seamless application results in an easy to clean finish that is ideal for wet processing zones and food preparation areas.



Hygienic antimicrobial additive



Heat resistant up to 100°C



Coving and vertical application



Resistant to chemicals and abrasion

## Technical Profile

### TEMPERATURE RESISTANCE (5mm)

Up to 100°C (intermittent spillages)  
Up to 90°C (dry heat)

### WATER PERMEABILITY

Karsten Test	Nil (Impermeable)
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### FIRE RESISTANCE

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

TRRL Pendulum Slip Test	Dry >80, Wet >40 (Aggregate dependant)
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### ABRASION RESISTANCE

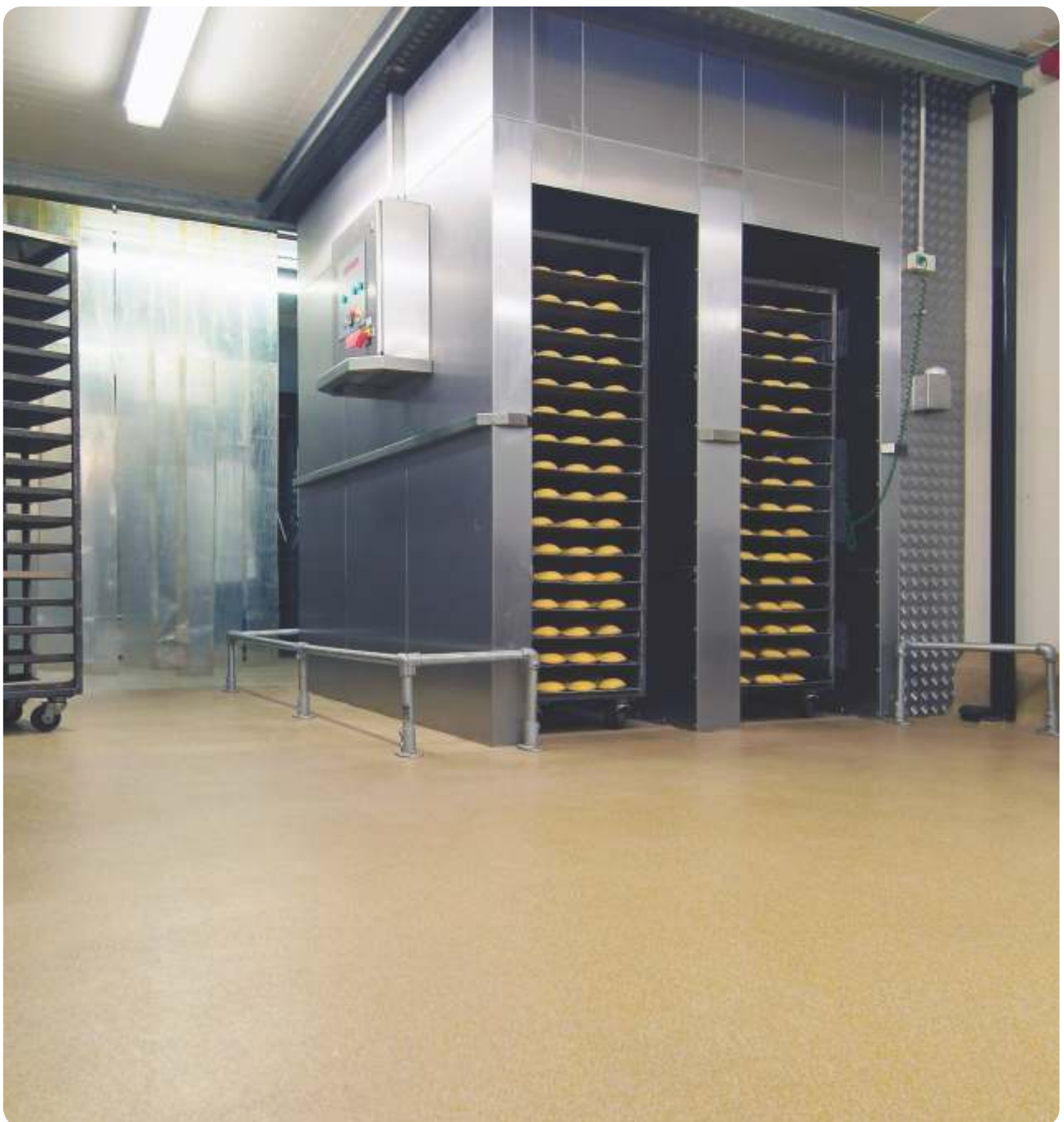
Taber Abrader	25 mg loss per 1000 cycles ( 1kg load using H22 wheels)
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### BOND STRENGTH

ASTM D4541 (Pull-Off Test)	> 1.5 MPa*
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## 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 SRQ

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.



### 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 90°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 7700



Green 7300



Yellow 7400



Grey 7120



Grey 7600



Red 7500



Blue 7750



Grey 7770

## Technical Profile

### TEMPERATURE RESISTANCE

Tolerant up to 70°C

### WATER PERMEABILITY

Karsten Test Nil (Impermeable)

### FIRE RESISTANCE

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

### SLIP RESISTANCE

TRRL Pendulum Slip Test Dry >60, Wet >45 (Aggregate dependant)

### ABRASION RESISTANCE

Taber Abrader 0.12g loss per 1000 cycles (1kg load using CS17 wheels)

### COMPRESSIVE STRENGTH

BS6319 >50 N/mm<sup>2</sup>

### FLEXURAL STRENGTH

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

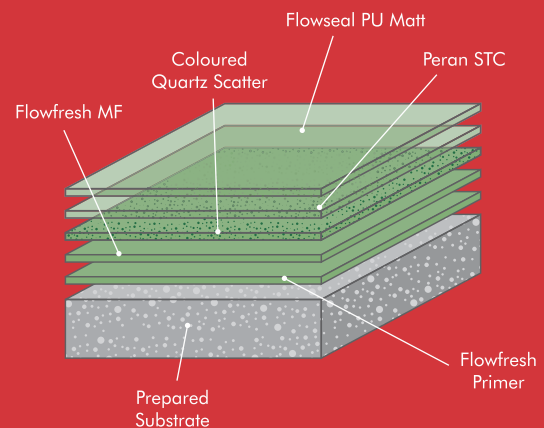
### TENSILE STRENGTH

BS6319 >10 N/mm<sup>2</sup>

### BOND STRENGTH

ASTM D4541 (Pull-Off Test) >1.5 MPa\*

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



\*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.

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- Tremco Construction Products Group (CPG) India is a market leader in the manufacture of Construction Chemical products including seamless industrial and commercial resin flooring solution, waterproofing systems, roofing with insulation, systems for joints & durable sealants, admixtures, repair solution, fibres as well as other specialist construction products & coatings.
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for the world of your feet

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### **Tremco CPG (India) Private Limited**

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