



FLOWFRESH

▶ HACCP International certified antimicrobial cementitious polyurethane floor coating systems, ideal for use in areas where hygiene is critical.

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.

Offering total protection, a continuous migration of silver ions is 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 is HACCP International certified safe for use in food and beverage processing environments and meets the stringent ISO 22196 standard of evaluating the antimicrobial activity of antimicrobial treated plastics and other non-porous surfaces.

Application Suitability



Food Manufacturing



Food Preparation



Bottling Plants & Breweries



Healthcare & Pharmaceutical



Meat, Poultry & Seafood



Dairies & Hatcheries



Bakeries & Confectionery



Animal Care



System Components

	DESCRIPTION	USES
Flowfresh Primer	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.
Flowfresh Coating	3-component, matte polyurethane cement sealer with low odour.	Used as a sealer to Flowfresh flooring systems e.g. Flowfresh SR.
Flowfresh Sealer	2-component, full gloss polyurethane sealer with low odour.	Used as a sealer to Flowfresh flooring systems e.g. Flowfresh SR.
Flowfresh Coating Satin	3-component, semi-gloss polyurethane cement sealer with low odour.	Used as a sealer to Flowfresh flooring systems e.g. Flowfresh SR.
Flowfresh SL	3-component, polyurethane cement base coat for the Flowfresh Range containing the antimicrobial additive, Polygiene®.	Used as a base coat to Flowfresh flooring systems e.g. Flowfresh SR.

Flowfresh SR

A heavy duty, chemical resistant, antimicrobial, polyurethane resin floor system, with a positively textured slip resistant finish.

Flowfresh SR is available in various thicknesses with a matte, semi-gloss or gloss finish and is designed for wet processing zones such as food manufacturing, preparation areas, commercial kitchens and chemical processing plants.



Antimicrobial:

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



Thermal Resistant:

Resistant to temperatures up to 120°C and freeze/thaw resistant.



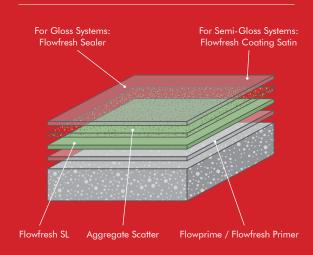
Certified:

HACCP International certified polyurethane flooring system.



Slip Resistant:

Impressive anti-slip profile in dry and wet conditions.





Technical Profile: Flowfresh SR

	4 mm		6 mm		9 mm				
	Matte	Semi- Gloss	Gloss	Matte	Semi- Gloss	Gloss	Matte	Semi- Gloss	Gloss
FIRE RESISTANCE AS/ISO 9239.1	CHF Value: 10 kW/m² Smoke Value: 69% (Mean)		CHF Value: 10 kW/m² Smoke Value: 69% (Mean)		CHF Value: 10 kW/m² Smoke Value: 69% (Mean)				
SLIP RESISTANCE* Method described in AS4586-2013	Dry & Wet Rating is dependent on specification		Dry & Wet Rating is dependent on specification		Dry & Wet Rating is dependent on specification				
IMPACT RESISTANCE EN ISO 6272	15 Nm		15 Nm		15 Nm				
TEMPERATURE RESISTANCE	-15°C to 65°C		-25°C to 90°C		-40°C to 120°C				
WATER PERMEABILITY Karsten Test	Nil		Nil		Nil				
VAPOUR PERMEABILITY ASTM E96:90	-		-		3 g / m² / 24 hrs				
ABRASION RESISTANCE Taber Abrader	0.1 g loss per 1000 cycles (1 kg using CS17 wheels)		0.1 g loss per 1000 cycles (1 kg using CS17 wheels)		0.1 g loss per 1000 cycles (1 kg using CS17 wheels)				
COMPRESSIVE STRENGTH EN 13892-2	>50 N/mm²		>50 N/mm²		>50 N/mm²				
FLEXURAL STRENGTH EN 13892-2	>20 N/mm²		>20 N/mm²		>20 N/mm²				
TENSILE STRENGTH BS 6319	7 N/mm²		7 N/mm²		7 N/mm²				
BOND STRENGTH ASTM D4541 (Pull-Off Test)	>1.5 MPa		>1.5 MPa		>1.5 MPa				
TOXICITY		free to sen uffs (when			free to sen uffs (when a			free to sen uffs (when o	
SPEED OF CURE** Full Chemical Cure at 20°C	6 days		6 days		6 days				

^{*}The slipperiness of flooring materials can change significantly, due to the installation process, after short periods of use, due to inappropriate maintenance, longer-term wear and/or surface contaminants (wet or dry). Textured systems are recommended to meet slip resistance value requirements for wet conditions and/or surface contaminants (wet or dry) — please contact our Technical Advisors for further details. **For full speed of cure details, contact our Technical Advisors.



Flowfresh SL (3 mm)

A pigmented, self-smoothing, chemical resistant, polyurethane resin-based floor finish containing Polygiene® antimicrobial additives.

Typically used in dry or semi-wet food processing and packaging zones.



Antimicrobial:

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



Chemical Resistant:

Protects against corrosive ingredients and cleaning agents.



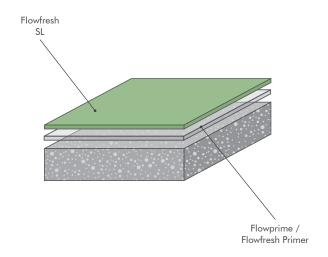
Certified:

HACCP International certified polyurethane flooring system.



Easy to Clean:

The self-smoothing finish is easy to maintain and sterilise.



Technical Profile

FIRE RESISTANCE				
EN 13501-1	B _{FL} -s1			
SLIP RESISTANCE*				
Method described in AS4586-2013	Dry & Wet Rating is dependent on specification			
IMPACT RESISTANCE				
BS8204 Part 1 Cat: A (<0.8 mm) ISO 6272	1 kg weight >1.8 m 2 kg weight >1.5 m			
TEMPERATURE RESISTANC	E .			
5°C to 65°C				
COEFFICIENT OF THERMAL	_ EXPANSION			
ASTM C531	5.70 × 10 ⁻⁵ °C ⁻¹			
WATER PERMEABILITY				
Karsten Test	Karsten Test Nil (Impermeable)			
ABRASION RESISTANCE				
Taber Abrader	0.1g loss per 1000 cycles (1kg using CS17 wheels)			
COMPRESSIVE STRENGTH				
EN 13892-2 >50 N/mm ²				
FLEXURAL STRENGTH				
EN 13892-2	>20 N/mm²			
TENSILE STRENGTH				
EN 13892-2	>10 N/mm²			
BOND STRENGTH				
ASTM D4541 (Pull-Off Test)	>1.5 MPa			
TOXICITY				
Taint free to sensitive foodstuffs (when cured).				
SPEED OF CURE**				
Full Chemical Cure at 30°C	6 days			

*The slipperiness of flooring materials can change significantly, due to the installation process, after short periods of use, due to inappropriate maintenance, longer-term wear and/or surface contaminants (wet or dry). Textured systems are recommended to meet slip resistance value requirements for wet conditions and/or surface contaminants (wet or dry) — please contact our Technical Advisors for further details. **For full speed of cure details, contact our Technical Advisors.



Flowfresh MF (4 mm)

A chemical resistant, polyurethane resin floor system containing Polygiene®, with a smooth matte brightly coloured finish.

Typically used in dry to semi-wet areas such as food or pharmaceutical packaging zones.



Antimicrobial:

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



Chemical Resistant:

Protects against corrosive ingredients and cleaning agents.



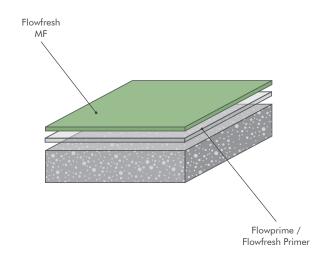
Certified:

HACCP International certified polyurethane flooring system.



Easy to Clean:

The self-smoothing finish is easy to maintain and sterilise.



Technical Profile

FIRE RESISTANCE					
EN 13501-1	B _{FL} -s1				
SLIP RESISTANCE*	SLIP RESISTANCE*				
Method described in					
IMPACT RESISTANCE					
EN ISO 6272	15 Nm				
TEMPERATURE RESISTANC	E				
-15°C to 90°C					
COEFFICIENT OF THERMAL	. EXPANSION				
ASTM C531 5.70 × 10 ⁻⁵ °C ⁻¹					
WATER PERMEABILITY					
Karsten Test	Nil (Impermeable)				
VAPOUR PERMEABILITY					
ASTM E96:90	5 g / m² / 24 hrs				
ABRASION RESISTANCE					
Taber Abrader 0.1g loss per 1000 cycles (1kg using CS17 wheels)					
COMPRESSIVE STRENGTH					
EN 13892-2 >50 N/mm²					
FLEXURAL STRENGTH					
EN 13892-2	>20 N/mm²				
TENSILE STRENGTH					
EN 13892-2	7 N/mm²				
BOND STRENGTH					
ASTM D4541 (Pull-Off Test)	>1.5 MPa				
TOXICITY					
Taint free to sensitive foodstuffs (when cured).					
SPEED OF CURE**					
Full Chemical Cure at 30°C	6 days				

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Flowfresh SRQ

A durable, highly decorative, non-slip, hybrid resin-based flooring system featuring a blend of coloured quartz granules.

Typically used in wet processing areas, food preparation and chemical processing plants.



Antimicrobial:

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



Flexible Design:

Offers extensive design potential to deliver the wow-factor underfoot.



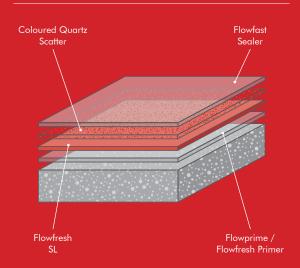
Certified:

HACCP International certified polyurethane flooring system.



Slip Resistant:

Impressive anti-slip profile in dry and wet conditions.





Technical Profile: Flowfresh SRQ

	4 mm	6 mm		
	Satin	Satin		
FIRE RESISTANCE EN 13501-1	B _{FL} -s1	B _{FL} -s1		
SLIP RESISTANCE* Method described in AS4586-2013	Dry & Wet Rating is dependent on specification	Dry & Wet Rating is dependent on specification		
IMPACT RESISTANCE EN ISO 6272	15 Nm	15 Nm		
TEMPERATURE RESISTANCE	-15°C to 70°C	-25°C to 70°C		
WATER PERMEABILITY Karsten Test	Nil (Impermeable)	Nil (Impermeable)		
ABRASION RESISTANCE Taber Abrader	0.1g loss per 1000 cycles (1kg using CS17 wheels)	0.1g loss per 1000 cycles (1kg using CS17 wheels)		
COMPRESSIVE STRENGTH EN 13892-2	>50 N/mm²	>50 N/mm²		
FLEXURAL STRENGTH EN 13892-2	>20 N/mm²	>20 N/mm²		
TENSILE STRENGTH BS 6319	7 N/mm²	7 N/mm²		
BOND STRENGTH ASTM D4541 (Pull-Off Test)	>1.5 MPa	>1.5 MPa		
SPEED OF CURE** Full Chemical Cure	Base Coat (Flowfresh SL) at 20°C: 6 days Seal Coat (Flowfast Sealer) at 20°C: 2–3 hours	Base Coat (Flowfresh SL) at 20°C: 6 days Seal Coat (Flowfast Sealer) at 20°C: 2–3 hours		

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