



Specialist resin and HACCP International certified antimicrobial treated floor coating systems designed to cater for...

# FOOD & BEVERAGE PROCESSING



www.flowcreteasia.com

## Welcome to Flowcrete

Food and beverage manufacturing facilities include a diverse range of wet and dry processing environments as well as non-processing areas such as laboratories, changing rooms, corridors and warehouse areas. Each of these are subject to a host of challenges, including wet conditions, extreme temperature swings and heavy traffic as well as attack from chemicals and corrosive ingredients.

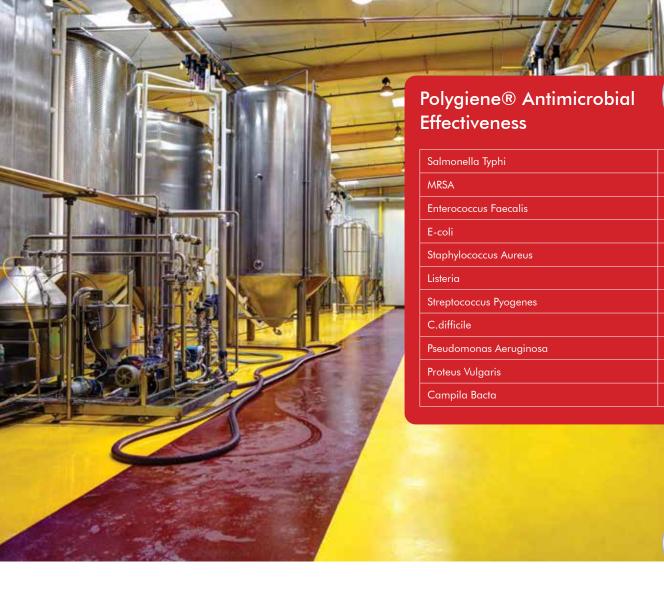
As such, each area of the food and beverage processing facility requires protective floor coating systems that meet strict hygiene and safety protocols in line with local regulations and HACCP principles as well as the individual performance characteristics needed to withstand their unique service conditions.

Flowcrete offers a complete package of speciality floor coating systems designed to cater for all areas within a food and beverage processing environment.



### Food & Beverage Processing Floor Plan

For the application suitability of each system, look out for the check mark symbol throughout the brochure.

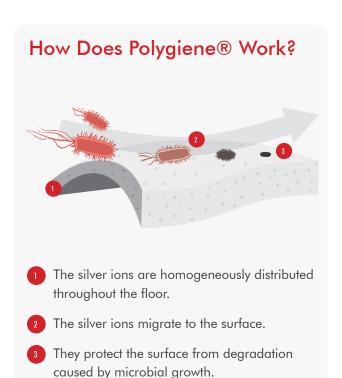


## **HACCP International Certified Hygienic Flooring**

A food processing floor is subject to constant traffic, impact damage due to equipment handling and often subject to attack from chemicals and corrosive ingredients.

Resin flooring systems ensure a non-porous, smooth and seamless surface where there is nowhere for bacteria or mould spores to grow.

Flowcrete's HACCP International certified and ISO 22196 compliant polyurethane flooring materials offer enhanced protection with the inclusion of Polygiene®, a silver-ion antimicrobial agent, designed to protect the surface from degradation caused by microbial growth.



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## Flowfresh MF (3-4 mm)

A chemical resistant, antimicrobial floor, best suited to packaging areas and processing zones subject to medium to heavy foot and wheeled traffic, this HACCP International certified system delivers a joint-free, smooth matt finish.

#### LOADING & UNLOADING, DRY PROCESSING & PACKAGING, CHANGING ROOMS, CORRIDORS

### **Standard Colours**





TEMPERATURE RESISTANCE				
From -5°C to 90°C				
SLIP RESISTANCE				
Method described in BS 7976-2 (typical values for 4-S rubber slider)	Dry>40, Wet depends on specification (in accordance with HSE & UKSRG guidelines)			
ABRASION RESISTANCE				
Taber Abrader0.1g loss per 1000 cycles(1kg load using CS17 wheels)				
WATER PERMEABILITY	·			
Karsten Test	Nil (Impermeable)			



TEMPERATURE RESISTANCE				
From -15°C to 90°C				
SLIP RESISTANCE				
Method described in BS 7976-2 (typical values for 4-S rubber slider)Dry>40, Wet depends on specification (in accordance with HSE & UKSRG guidelines				
ABRASION RESISTANCE				
Taber Abrader     0.1g loss per 1000 cycles       (1kg load using CS17 wheels				
WATER PERMEABILITY				
Karsten Test	Nil (Impermeable)			

## Flowfresh SR (3-4 mm)

A heavy duty, HACCP International certified, polyurethane floor with a positively textured finish. Suited to all zones subject to heavy foot and wheeled traffic, this trowel applied 3–4 mm system delivers an anti slip floor finish.

#### COOKING AREAS

### **Standard Colours**



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



## **Flowfresh SRQ** (Thickness dependent on specification)

A heavy duty, antimicrobial, polyurethane floor with coloured quartz aggregates. Suited to all zones subject to heavy foot and wheeled traffic, this HACCP International certified system delivers a decorative, anti slip, joint-free floor finish.

#### WET PROCESSING

#### **Standard Colours**





Mid Grey







Yellow







Light Grey

Red



#### **TEMPERATURE RESISTANCE** 90°C (continuous exposure), 110°C (intermittent spills) **SLIP RESISTANCE** Method described in Dry>40, Wet depends on BS 7976-2 (typical values specification (in accordance for 4-S rubber slider) with HSE & UKSRG guidelines) **ABRASION RESISTANCE** Taber Abrader 0.12g loss per 1000 cycles (1kg load using CS17 wheels) WATER PERMEABILITY Karsten Test Nil (Impermeable)



TEMPERATURE RESISTANCE				
From -25°C to 120°C				
SLIP RESISTANCE				
Method described in BS 7976-2 (typical values for 4-S rubber slider)Dry>40, Wet depends on specification (in accordance with HSE & UKSRG guidelines)				
ABRASION RESISTANCE				
Taber Abrader 0.12g loss per 1000 cycles   (1kg load using CS17 wheels)				
WATER PERMEABILITY				
Karsten Test	Nil (Impermeable)			

## Flowfresh RT & HF (6-9 mm)

A slip-resistant, HACCP International certified, polyurethane screed for use in wet processing zones and thermal shock areas where it is subject to high volumes of foot and wheeled traffic, these trowel applied 6–9mm systems deliver a seamless joint-free matt finish.

#### COLD ROOMS

### Standard Colours



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



## Flowcoat HTS (Thickness dependent on specification)

A high performance, UV light stable, chemical resistant, pigmented hybrid polyurethane coating system. Ideal for use in heavy traffic environments where abrasion resistance is essential.

#### ☑ WAREHOUSES, TECHNICAL OFFICES

### **Standard Colours**





TEMPERATURE RESISTANCE				
Tolerant up to 70°C				
SLIP RESISTANCE				
Method described in BS 7976-2 (typical values for 4-S rubber slider)	Dry>40, Wet depends on specification (in accordance with HSE & UKSRG guidelines)			
ABRASION RESISTANCE				
Taber Abrader	40mg loss per 1000 cycles (1kg load using CS17 wheels)			
BS 8204-2 Grade AR2				
WATER PERMEABILITY				
Karsten Test	Nil (Impermeable)			



TEMPERATURE RESISTANCE				
Tolerant up to 60°C				
SLIP RESISTANCE				
Method described in BS 7976-2 (typical values for 4-S rubber slider)Dry>40, Wet depends on specification (in accordance with HSE & UKSRG guidelines				
ABRASION RESISTANCE				
Taber Abrader 90mg loss per 1000 cycles   (1kg load using CS17 wheels)				
WATER PERMEABILITY				
Nil (Impermeable)				

## Flowshield CR (2-3 mm)

A chemical resistant, self-smoothing epoxy resin flooring system used in dry processing areas where the floor is subject to chemical spillage as well as medium to heavy traffic.

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### **Standard Colours**



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



## **Bacteria in Food Processing Environments**

**bac**•**ter**•**i**•**a** Single-cell organisms that feed on nutrients in their surroundings to reproduce. Pathogenic bacteria are harmful to humans, and can enter the body through contaminated food.



## Flowfresh Bacterial and Chemical Resistance

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

\*Full chemical resistance chart available on request.



# Flowcrete Flooring Systems Summary

	THICKNESS	ТҮРЕ	DESCRIPTION
Flowfresh MF	3–4 mm	Polyurethane	A matt finish polyurethane floor system for use in dry areas.
Flowfresh SR	3–4 mm	Polyurethane	A heavy duty polyurethane floor with an anti slip finish.
Flowfresh RT	6–9 mm	Polyurethane	A slip-resistant polyurethane screed for use in wet and thermal shock areas.
Flowfresh SRQ	Dependent on specification	Polyurethane	A heavy duty polyurethane floor with decorative, anti slip, coloured quartz aggregates.
Flowcoat HTS	Dependent on specification	Hybrid Polyurethane	A heavy duty pigmented hybrid polyurethane coating system.
Flowshield CR	2–3 mm	Ероху	A chemical resistant, self-smoothing epoxy resin.







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