

Flowcrete
for the world at your feet



FLOWFRESH



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

FLOWFRESH RANGE



Flowfresh represents a new generation of high-performance antimicrobial flooring. Created in partnership with Polygiene®, Flowfresh harnesses silvers natural ability to inhibit the growth of microbes. Flowfresh has been tested against the ISO 22196 standard.

Proving that a building is able to meet a high standard of hygiene is essential in many sectors, especially contamination sensitive settings such as the food and beverage, pharmaceutical and electronics industries.

Based on polyurethane concrete, the key aspects of Flowfresh, making it an ultra-hygienic flooring system, include its seamless, impervious, highly durable nature combined with its ability to incorporate coving and stainless-steel drainage.

A large number of Flowfresh systems are now available in QUICK versions. The development of these fast curing versions provides a crucial benefit as it reduces application time, ensuring less costly downtime in the industry for maintenance work.

Application Suitability



Food & Beverage Meat & Fish Bakeries & Confectionary Food Prep & Kitchens Hospitals & Healthcare Pharmaceutical Environments

Flowfresh Range; Best for:

Lifecycle Costing:
Durable resin flooring systems reduce the frequency of repairs or need for replacement.

Reducing Risk:
Hygienic resin flooring reducing the opportunity for microbial contamination and the potential for slips.

The new generation of Flowfresh functional flooring solutions is sustainable and user friendly, in addition, highly durable, aesthetic and easy to keep clean.

Resistance Chart

MICROBIAL EFFICACY			
MRSA	✓	Salmonella Typhi	✓
E-coli	✓	Enterococcus Faecalis	✓
Listeria	✓	Staphylococcus Aureus	✓
Proteus Vulgaris	✓	Streptococcus Pyogenes	✓
Campylobacter	✓	Pseudomonas Aeruginosa	✓

CHEMICAL RESISTANCE			
Hydrochloric Acid	✓	Methanol	✓
Sulphuric Acid	✓	Sugar Syrups	✓
Citric Acid	✓	Caustic Soda	✓
Acetic Acid	✓	Petrol	✓
Lactic Acid	✓	Oil Ingredients	✓
Phosphoric Acid	✓	Detergents	✓

HACCP International Certified Hygienic Flooring

A food and beverage 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, making it very difficult for microbes or mould to grow.

HACCP international certified and tested to ISO 22196 polyurethane flooring materials offer enhanced product protection with the inclusion of Polygiene antimicrobial silver ion technology protecting the microbial degradation.

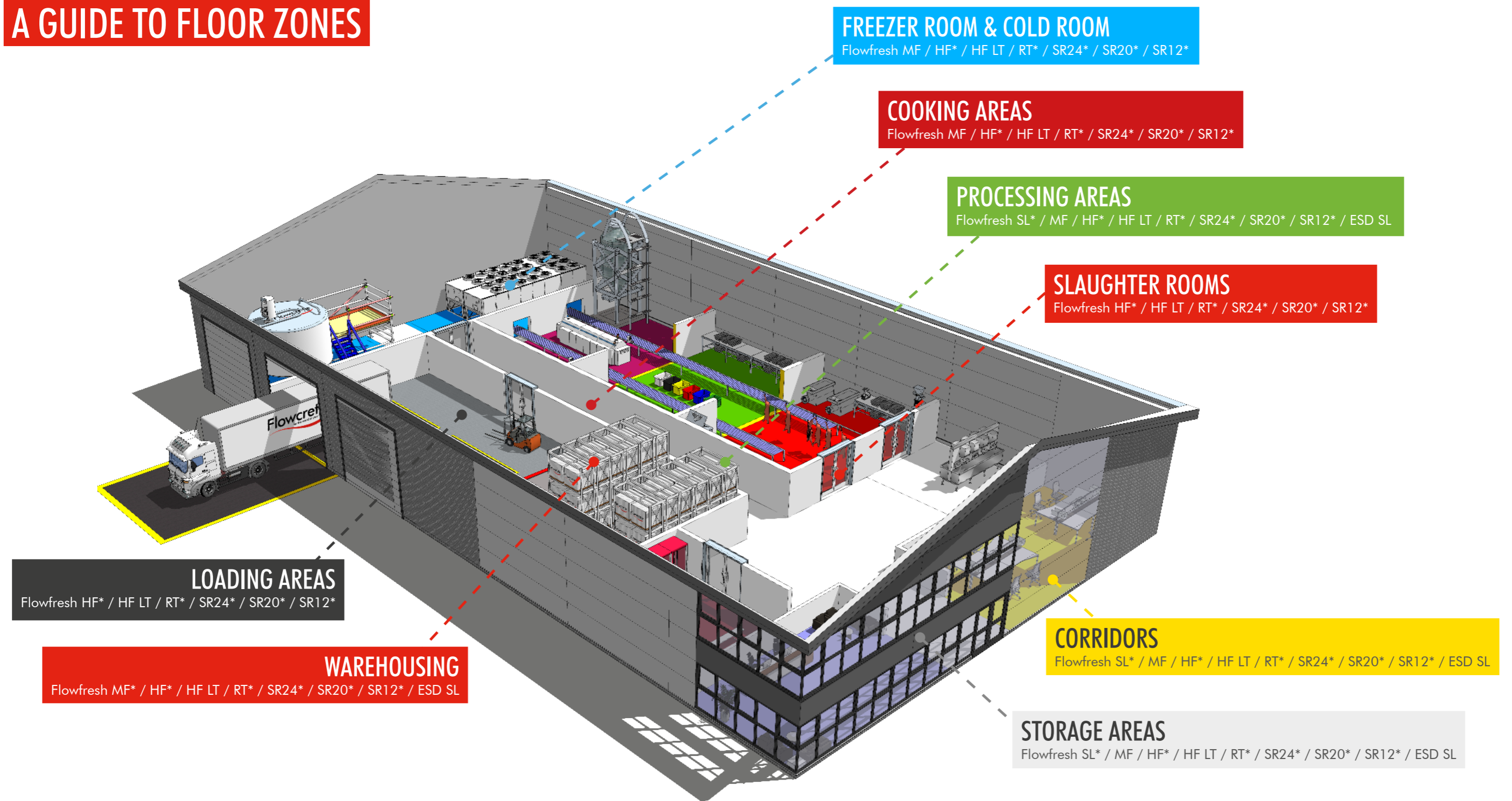
WITHOUT POLYGIENE
MICROBES SETTLE AND MULTIPLY ON SURFACES, CAUSING DEGRADATION

WITH POLYGIENE
SILVER IONS ACTIVELY INHIBITS ALL MICROBES AND PROTECTS THE SURFACE

POLYGIENE IS HOMOGENOUSLY DISTRIBUTED THROUGHOUT THE FLOOR/MATERIAL

© Polygiene

A GUIDE TO FLOOR ZONES



FREEZER ROOM & COLD ROOM
Flowfresh MF / HF* / HF LT / RT* / SR24* / SR20* / SR12*

COOKING AREAS
Flowfresh MF / HF* / HF LT / RT* / SR24* / SR20* / SR12*

PROCESSING AREAS
Flowfresh SL* / MF / HF* / HF LT / RT* / SR24* / SR20* / SR12* / ESD SL

SLAUGHTER ROOMS
Flowfresh HF* / HF LT / RT* / SR24* / SR20* / SR12*

LOADING AREAS
Flowfresh HF* / HF LT / RT* / SR24* / SR20* / SR12*

WAREHOUSING
Flowfresh MF* / HF* / HF LT / RT* / SR24* / SR20* / SR12* / ESD SL

CORRIDORS
Flowfresh SL* / MF / HF* / HF LT / RT* / SR24* / SR20* / SR12* / ESD SL

STORAGE AREAS
Flowfresh SL* / MF / HF* / HF LT / RT* / SR24* / SR20* / SR12* / ESD SL

*Quick system also suitable for this area.

Benefits of Flowfresh Flooring

- Holds its own against impact, traffic and temperature.
- Improved air quality during installation and beyond.
- Antimicrobial additives can reduce microbes by up to 99.9%
- Protects against chemicals, fats, hot oils, sugar and acids.
- Positively textured profile to minimise the risk of slips.
- Quick systems available.

Why Specify Flowfresh Flooring Solution for Different Areas of Application?

The floor of a facility is subject to a wide variety of products including fats, hot oils, blood, sugar solutions, natural food acids, chemicals, detergents. Many of these substances can cause damage to an uncoated concrete floor due to their corrosive nature.

Flowfresh SL (2 mm)


A self-smoothing, medium duty, antimicrobial treated polyurethane resin floor finish.

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.

-  **Hygienic**
-  **Chemical Resistance**
-  **Durable**
-  **Easy to Clean**

Technical information

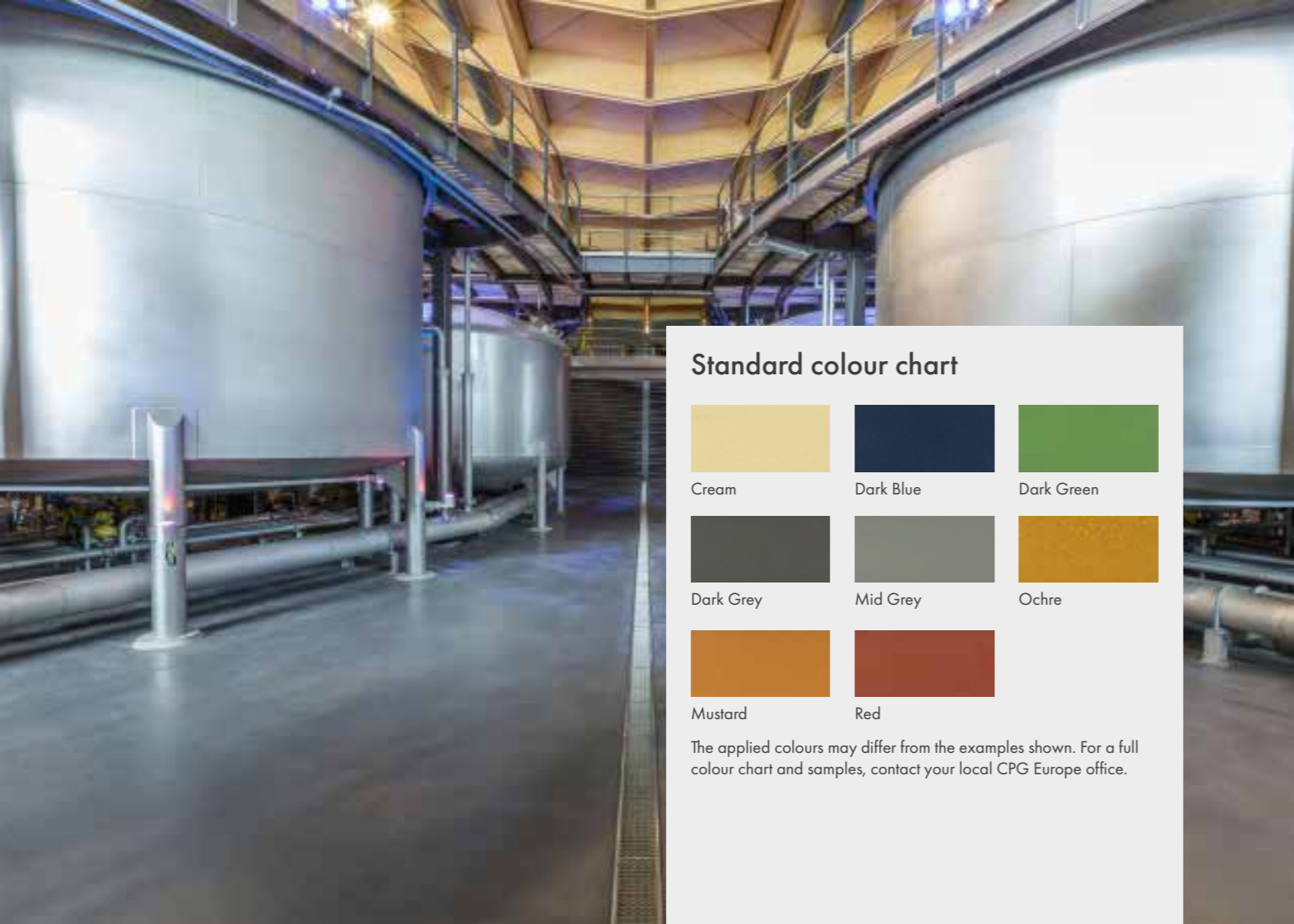
FIRE RESISTANCE	
EN 13501-1	B _n -s ¹
SLIP RESISTANCE	
BS 7976-2	Dry > 40
IMPACT RESISTANCE	
EN ISO 6272	IR4
WEAR RESISTANCE	
EN 13892-5	AR0.5
WATER PERMEABILITY	
Karsten Test	Nil (Impermeable)
TEMPERATURE RESISTANCE	
Tolerant to intermittent spillages up to 60°C & Sustained dry heat from -20°C to 50°C.	

 **Quick System Available**
*Primer and topcoat in accordance with manufacturer's instructions. See build-ups section.

Standard colour chart


		
Cream	Dark Blue	Dark Green
		
Dark Grey	Mid Grey	Ochre
		
Mustard	Red	

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



Technical Information

FIRE RESISTANCE	
EN 13501-1	B _n -s ¹
SLIP RESISTANCE	
BS 7976-2	Dry > 40
IMPACT RESISTANCE	
EN ISO 6272	IR4
WEAR RESISTANCE	
EN 13892-5	AR0.5
WATER PERMEABILITY	
Karsten Test	Nil (Impermeable)
TEMPERATURE RESISTANCE	
Tolerant to intermittent spillages up to 80°C & Sustained dry heat from -20°C to 70°C.	

 **Quick System Available**
*Primer and topcoat in accordance with manufacturer's instructions. See build-ups section.

Flowfresh MF (4 - 6 mm)

A self-smoothing, medium duty, antimicrobial treated polyurethane resin floor finish.

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.

-  **Hygienic**
-  **Chemical Resistance**
-  **Durable**
-  **Easy to Clean**

Standard colour chart

		
Cream	Dark Blue	Dark Green
		
Dark Grey	Mid Grey	Ochre
		
Mustard	Red	

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

Flowfresh HF (6-9 mm)


A trowel-applied, antimicrobial treated, seamless, resin floor screed with a fine textured coloured finish.

Best suited to wet processing zones subject to high volumes of foot and wheeled traffic.

-  **Hygienic**
-  **Chemical Resistance**
-  **Slip Resistance**
-  **Temperature Resistance**

Technical information

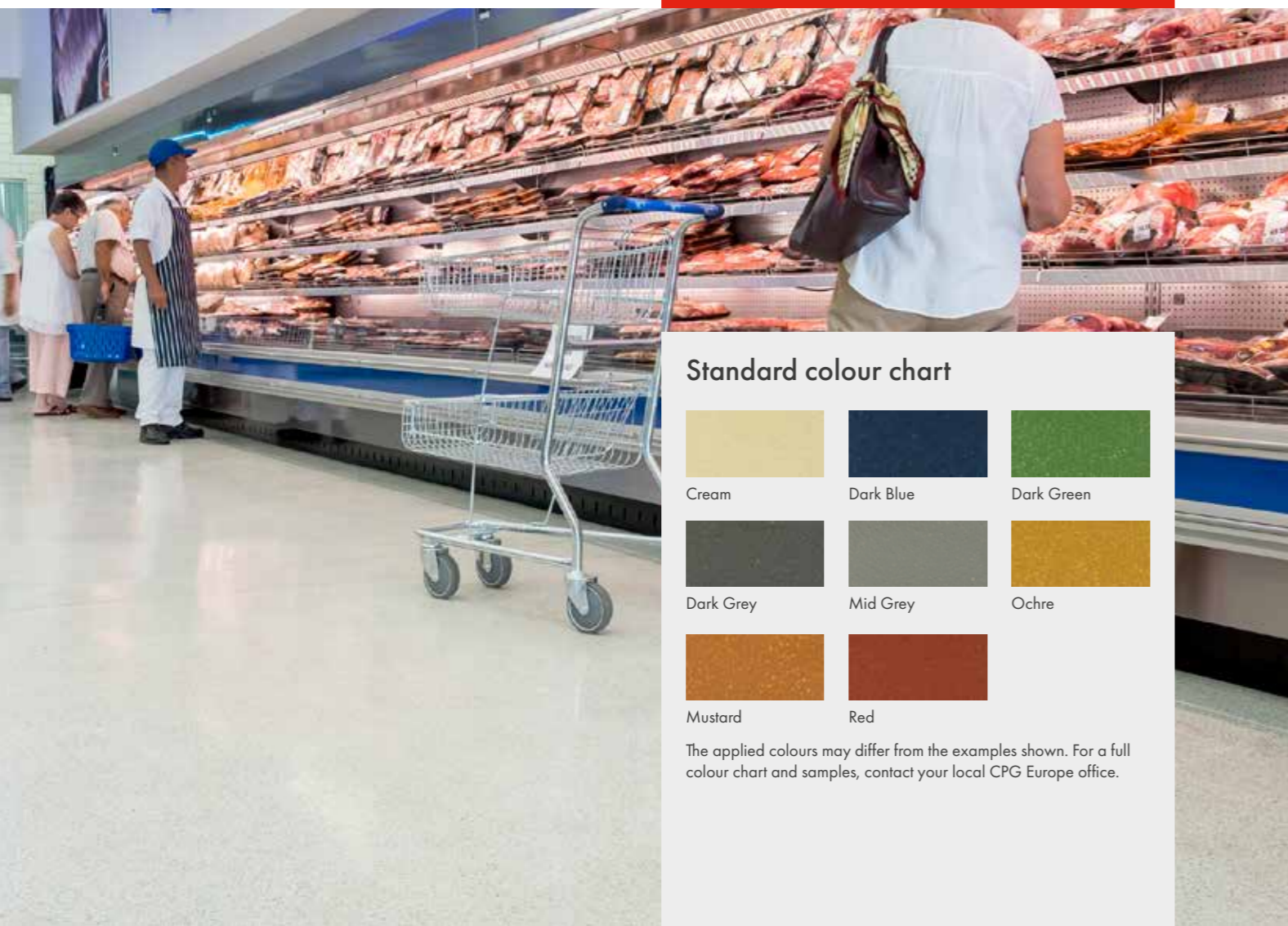
FIRE RESISTANCE	
EN 13501-1	B _n -s ¹
SLIP RESISTANCE	
BS 7976-2	Dry > 40
IMPACT RESISTANCE	
EN ISO 6272	IR20
WEAR RESISTANCE	
EN 13892-5	AR0.5
WATER PERMEABILITY	
Karsten Test	Nil (Impermeable)
TEMPERATURE RESISTANCE	
Tolerant to intermittent spillages up to 120°C or sustained dry heat from -40°C to 105°C (at 9 mm thickness).	

 **Quick System Available**
*Primer and topcoat in accordance with manufacturer's instructions. See build-ups section.

Standard colour chart



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



Technical Information

FIRE RESISTANCE	
EN 13501-1	B _n -s ¹
SLIP RESISTANCE	
BS 7976-2	Dry > 40
IMPACT RESISTANCE	
EN ISO 6272	IR20
WEAR RESISTANCE	
EN 13892-5	AR0.5
WATER PERMEABILITY	
Karsten Test	Nil (Impermeable)
TEMPERATURE RESISTANCE	
Tolerant to intermittent spillages up to 120°C or sustained dry heat from -40°C to 105°C (at 9 mm thickness).	

Flowfresh HF LT (6-9 mm)

An antimicrobial treated polyurethane resin floor screed with improved fluidity at low temperatures.

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

-  **Hygienic**
-  **Chemical Resistance**
-  **Slip Resistance**
-  **Temperature Resistance**

Standard colour chart



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

Flowfresh RT (6 - 9 mm)


A trowel-applied, antimicrobial treated polyurethane resin floor screed.

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

-  Hygienic
-  Chemical Resistance
-  Slip Resistance
-  Temperature Resistance

Technical Information

FIRE RESISTANCE	
EN 13501-1	B _{fl} -s ¹
SLIP RESISTANCE	
BS 7976-2	Dry > 40
IMPACT RESISTANCE	
EN ISO 6272	IR20
WEAR RESISTANCE	
EN 13892-5	AR0.5
WATER PERMEABILITY	
Karsten Test	Nil (Impermeable)
TEMPERATURE RESISTANCE	
Tolerant to intermittent spillages up to 120°C or sustained dry heat from -40°C to 105°C.	

 **Quick System Available**
 *Primer and topcoat in accordance with manufacturer's instructions. See build-ups section.

Standard colour chart



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



Standard colour chart



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

Flowfresh SR12 / 20 / 24 (4 - 11 mm)


A slurry-broadcast, antimicrobial treated polyurethane resin floor system.

Suited to all zones subject to heavy duty zones, this trowel applied system delivers an anti-slip floor finish.

-  Hygienic
-  Chemical Resistance
-  Slip Resistance
-  Wear Resistant

Technical Information

FIRE RESISTANCE	
EN 13501-1	B _{fl} -s ¹
SLIP RESISTANCE	
BS 7976-2 DIN 51130	Dry > 40 R13 V10 / R13 V6 / R12 V4
IMPACT RESISTANCE	
EN ISO 6272	IR20
WEAR RESISTANCE	
EN 13892-5	AR0.5
WATER PERMEABILITY	
Karsten Test	Nil (Impermeable)
TEMPERATURE RESISTANCE	
At 9-10 mm: Tolerant to intermittent spillages up to 120°C or sustained heat from -40°C to 105°C.	

 **Quick System Available**
 *Primer and topcoat in accordance with manufacturer's instructions. See build-ups section.

Flowfresh ESD SL (2 - 3 mm)

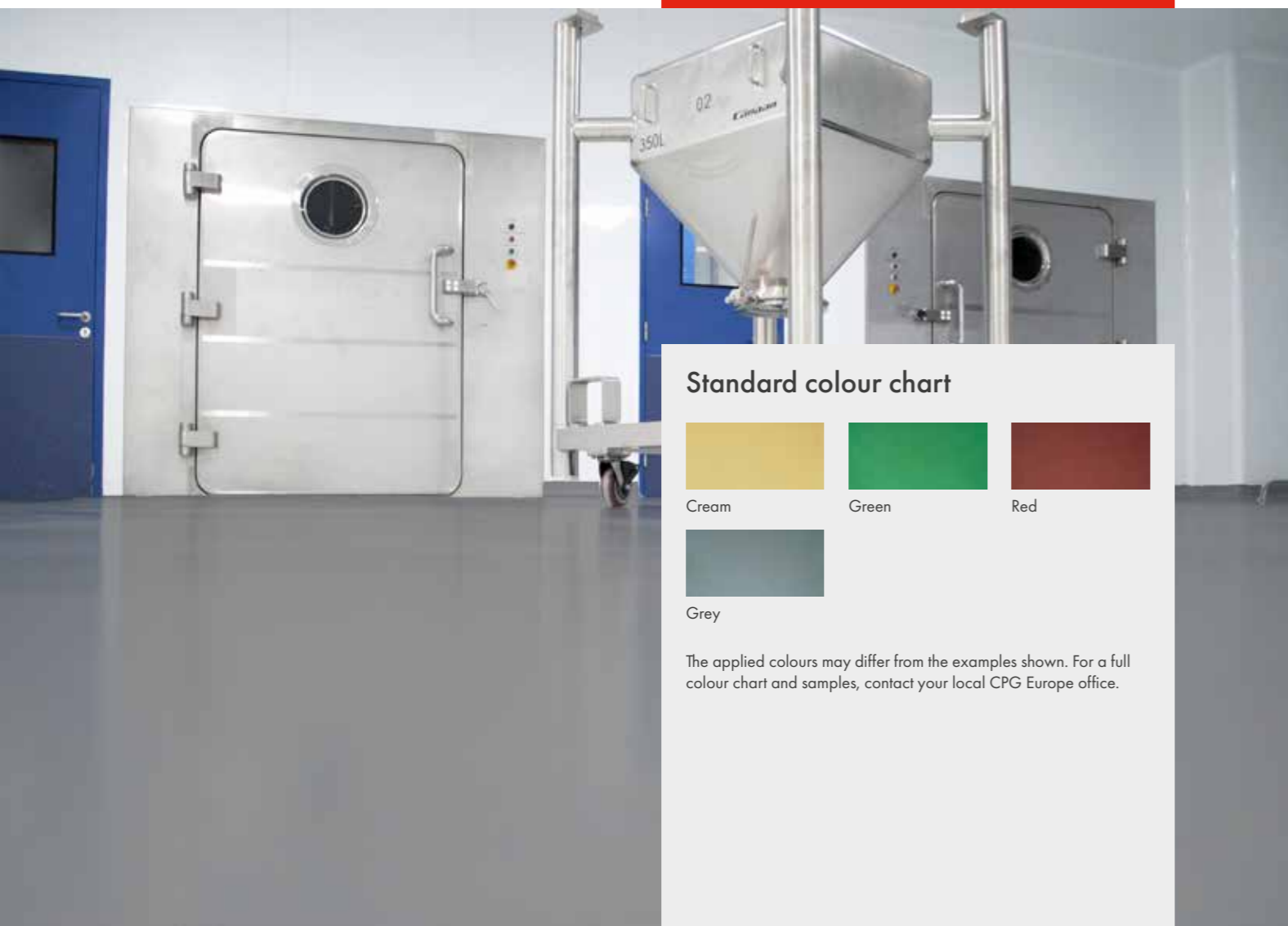
A conductive/ESD, chemical resistant antimicrobial treated polyurethane resin floor finish with a smooth matte coloured finish.

Provides required anti-slip finish in rooms and areas where the floor is expected to be resistant to medium mechanical and chemical loads.

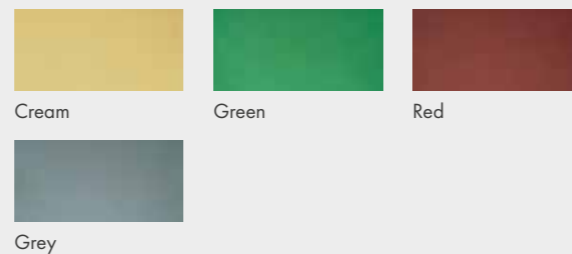
-  **Anti-static**
-  **Chemical Resistance**
-  **Hygienic**
-  **Abrasion Resistant**

Technical Information

FIRE RESISTANCE	
EN 13501-1	B _{fl} -s ¹
SLIP RESISTANCE	
BS 7976-2	Dry > 40
IMPACT RESISTANCE	
EN ISO 6272	IR4
WEAR RESISTANCE	
EN 13892-5	AR0.5
WATER PERMEABILITY	
Karsten Test	Nil (Impermeable)
TEMPERATURE RESISTANCE	
Tolerant up to 70°C	



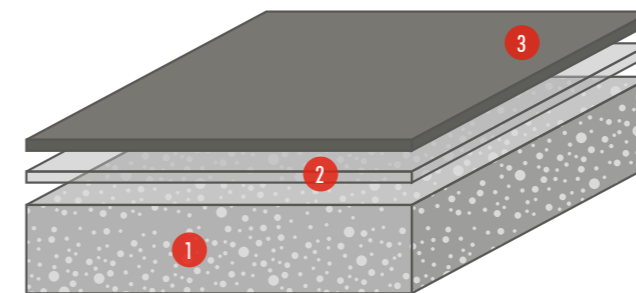
Standard colour chart



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

SYSTEM BUILD UPS

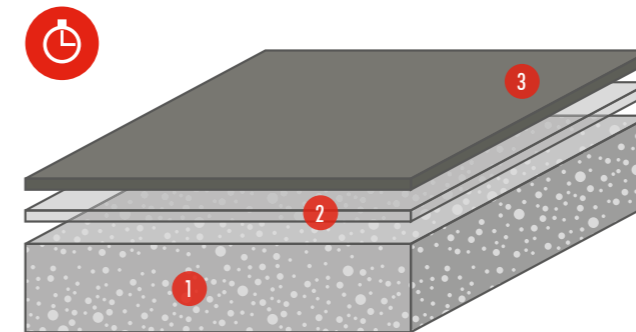
Flowfresh SL



- 1 Prepared Substrate
- 2 Primer
- 3 Flowfresh SL

APPLICATION AREA	Processing, packaging and storage areas and corridors.
FINISH	Matte
THICKNESS	2 mm
DUTY	Light

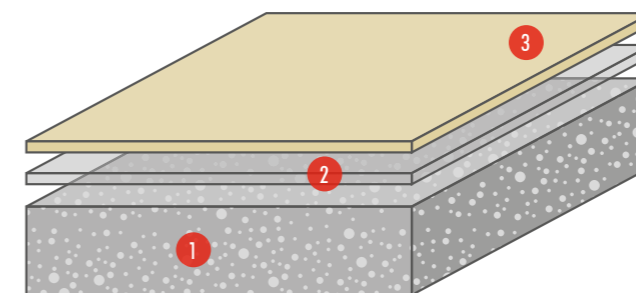
Flowfresh SL Quick



- 1 Prepared Substrate
- 2 Scratchcoat Quick
- 3 Flowfresh SL Quick

APPLICATION AREA	Processing, packaging and storage areas and corridors.
FINISH	Matte
THICKNESS	2 mm
DUTY	Medium

Flowfresh MF

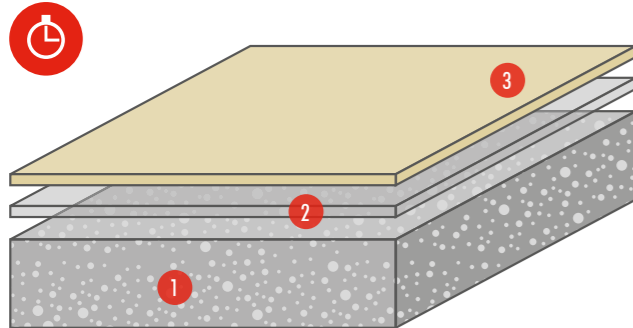


- 1 Prepared Substrate
- 2 Primer
- 3 Flowfresh MF

APPLICATION AREA	Freezer room & cold room, cooking, processing, packaging, storage areas, corridors and warehousing.
FINISH	Matte
THICKNESS	4 - 6 mm
DUTY	Medium

SYSTEM BUILD UPS

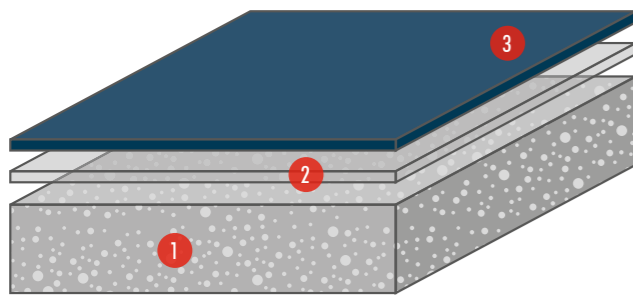
Flowfresh MF Quick



- 1 Prepared Substrate
- 2 Scratchcoat Quick
- 3 Flowfresh MF Quick

APPLICATION AREA	Processing, packaging and storage areas, corridors and warehousing.
FINISH	Matte
THICKNESS	4 mm
DUTY	Medium

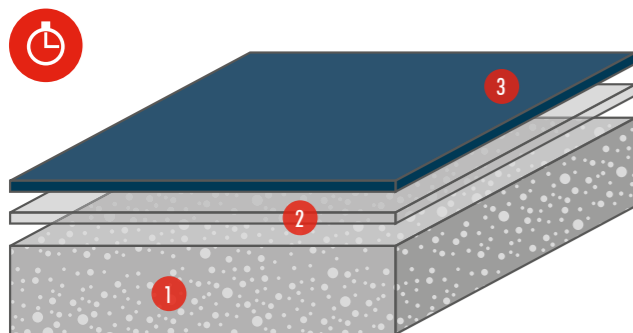
Flowfresh HF



- 1 Prepared Substrate
- 2 Primer
- 3 Flowfresh HF

APPLICATION AREA	All areas
FINISH	Matte
THICKNESS	6 - 9 mm
DUTY	Heavy

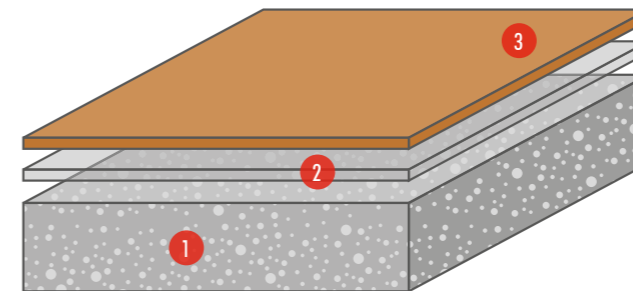
Flowfresh HF Quick



- 1 Prepared Substrate
- 2 Scratchcoat Quick
- 3 Flowfresh HF Quick

APPLICATION AREA	All areas
FINISH	Matte
THICKNESS	6 - 9 mm
DUTY	Heavy

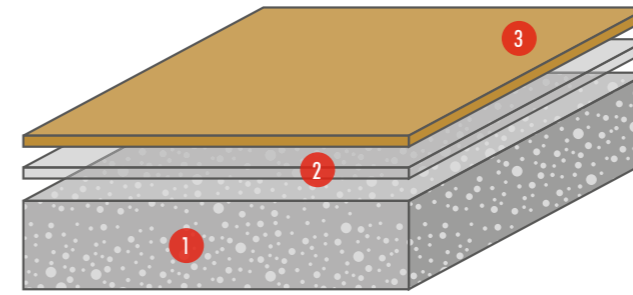
Flowfresh HF LT



- 1 Prepared Substrate
- 2 Primer
- 3 Flowfresh HF LT

APPLICATION AREA	All areas
FINISH	Matte
THICKNESS	6 - 9 mm
DUTY	Heavy

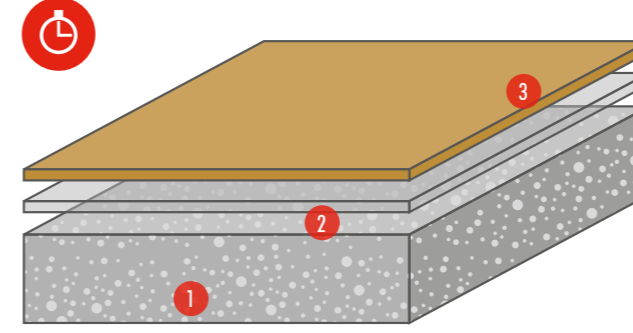
Flowfresh RT



- 1 Prepared Substrate
- 2 Primer
- 3 Flowfresh RT

APPLICATION AREA	All areas
FINISH	Matte
THICKNESS	6 - 9 mm
DUTY	Heavy

Flowfresh RT Quick

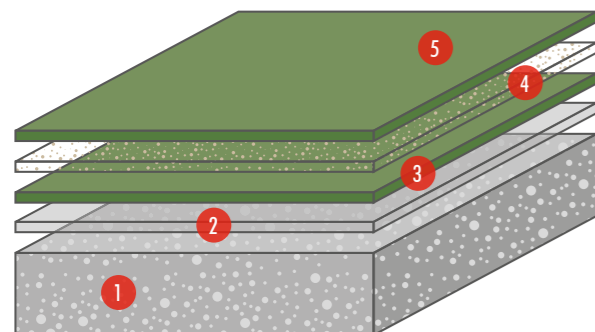


- 1 Prepared Substrate
- 2 Scratchcoat Quick
- 3 Flowfresh RT Quick

APPLICATION AREA	All areas
FINISH	Matte
THICKNESS	6 - 9 mm
DUTY	Heavy

SYSTEM BUILD UPS

Flowfresh SR (12 / 20 / 24)

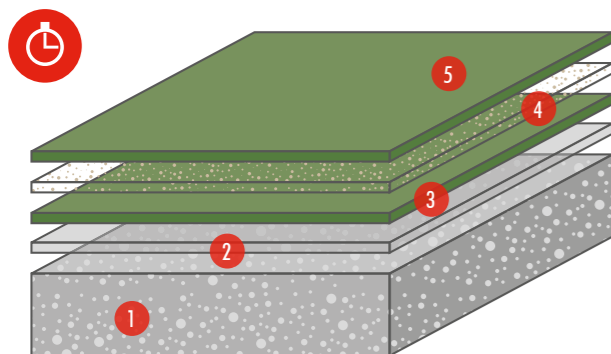


- 1 Prepared Substrate
- 2 Primer
- 3 Flowfresh SL/HD/RT/Mortar
- 4 Natural Quartz 0.4 - 2 mm
- 5 Flowfresh Coating Matt

APPLICATION AREA	All areas
FINISH	Matt
THICKNESS	4 - 11 mm
DUTY	Medium & Heavy



Flowfresh SR (12 / 20 /24) Quick

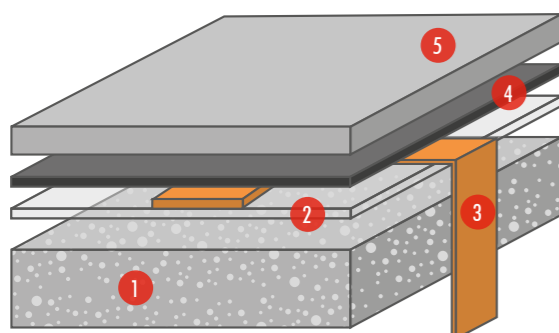


- 1 Prepared Substrate
- 2 Scratchcoat Quick
- 3 Flowfresh SL/HD/RT/Mortar Quick
- 4 Natural Quartz 0.4 - 2 mm
- 5 Flowfresh Coating Matt

APPLICATION AREA	All areas
FINISH	Matt
THICKNESS	4 - 11 mm
DUTY	Medium & Heavy



Flowfresh ESD SL



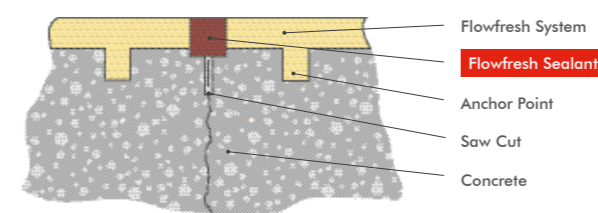
- 1 Prepared Substrate
- 2 Flowprime
- 3 Copper Strip
- 4 Peran ESD Primer WB
- 5 Flowfresh ESD SL

APPLICATION AREA	Processing, packaging and storage areas, corridors and warehousing.
FINISH	Matt
THICKNESS	2 - 3 mm
DUTY	Light

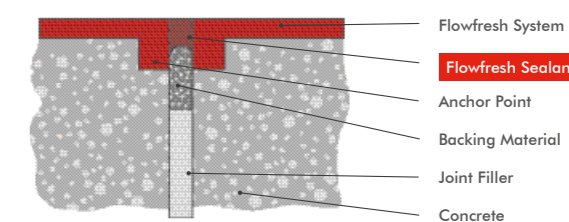


Joint Details

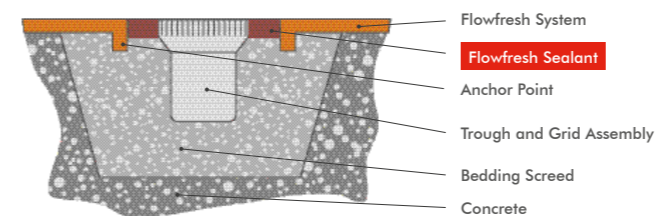
Typical (induced) Movement Joint



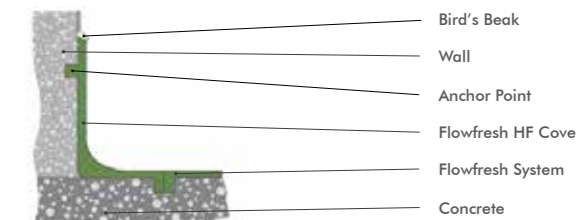
Typical (expansion) Movement Joint



Typical Drainage Chanel Arrangement



Typical Floor to Wall Detail



Flowfresh Sealant

One-component, elastic, polymeric joint sealer with improved chemical resistance and thermal stability. Designed to work in areas, where biological contamination is expected, it is especially suitable for food manufacturing and processing plants.

NOTE: During application and initial curing of product, substrate temperature needs to be at least 3°C higher than dew point temperature.

KEY BENEFITS			
Low emission, solvent-free material (zero VOC).	✓	Wide temperature tolerance range	✓
Quick and easy application.	✓	Resistant to food industry biological contaminants.	✓
High mechanical and chemical resistance	✓		

PACKAGING
Available in 600 ml foil packs, 15 pieces per carton.

PHYSICAL PROPERTIES	
APPEARANCE	COLOURED PASTE
Skin formation time (in +20°C, 50 % RH)	~2.5 mm / 24 hours
Shore A hardness after full cure (EN ISO 868)	~53
Crosswise elongation capabilities (joint movement)	≤ 25 %
Elongation at break (EN ISO 8339)	~ 300%
Service temperature range	-35°C to + 100°C
Available colours	Grey, Red, Ochre

TECHNICAL BACKUP AT A GLANCE

SYSTEM CLASSIFICATION

TYPE	SYSTEM	THICKNESS	TYPE	SYSTEM	THICKNESS
Smooth	Flowfresh SL Flowfresh MF	2 mm 4 - 6 mm	Fast Curing	Flowfresh SL Quick Flowfresh MF Quick	2 mm 4 mm
Heavy Duty	Flowfresh HF Flowfresh RT Flowfresh HF LT	6 - 9 mm		Flowfresh HF Quick Flowfresh RT Quick	6 - 9 mm
Slip Resistance	Flowfresh SR12 Flowfresh SR20 Flowfresh SR24	4 - 11 mm		Flowfresh SR12 Quick Flowfresh SR20 Quick Flowfresh SR24 Quick	4 - 11 mm
Anti-static	Flowfresh ESD SL	2 - 3 mm			

SPEED OF CURE PERFORMANCE⁽¹⁾

QUICK SYSTEMS

5 HOURS

Flowfresh SL Quick	Flowfresh MF Quick	Flowfresh HF Quick	Flowfresh RT Quick	Flowfresh SR24 Quick	Flowfresh SR20 Quick	Flowfresh SR12 Quick
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REGULAR SYSTEMS

16 HOURS

Flowfresh SL	Flowfresh MF	Flowfresh HF	Flowfresh RT	Flowfresh HF LT	Flowfresh SR24	Flowfresh SR20	Flowfresh SR12	Flowfresh ESD SL
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⁽¹⁾Minimum waiting time before wearing layer is walkable at 20°C ambient temperature

SLIP RESISTANCE PERFORMANCE

SYSTEM	SCATTER SIZE	⁽²⁾ CLASSIFICATION
Flowfresh SR24	0.4 - 0.8 mm	R12 - V4
Flowfresh SR20	0.9 - 1.2 mm	R13 - V6
Flowfresh SR12	1 - 2 mm	R13 - V10

⁽²⁾Slip Resistance result according to DIN 51130

				
R9 6° - 10°	R10 10° - 19°	R11 19° - 27°	R12 27° - 35°	R13 >35°

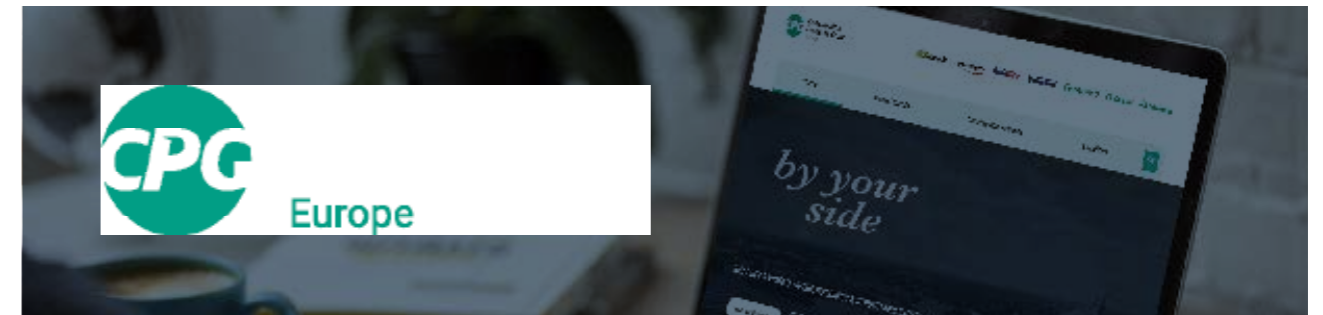
			
V4 4 cm ³ / dm ³	V6 6 cm ³ / dm ³	V8 8 cm ³ / dm ³	V10 10 cm ³ / dm ³

FLOW BEHAVIOUR (WEARING LAYER)

EASIEST TO APPLY						HARDEST TO APPLY
Flowfresh SL & SL Quick	Flowfresh MF & MF Quick	Flowfresh HD & HD Quick	Flowfresh RT & RT Quick	Flowfresh HF & HF Quick	Flowfresh Mortar & Mortar Quick	

COST PER M² / MM (WEARING LAYER)

HIGHEST						LOWEST
Flowfresh SL & SL Quick	Flowfresh MF & MF Quick	Flowfresh RT & RT Quick	Flowfresh HD & HD Quick	Flowfresh HF & HF Quick	Flowfresh Mortar & Mortar Quick	



CPG Europe manufactures high performance building materials in order to solve the complex challenges faced by today's construction industry. With over 1,400 employees across Europe, we are committed to being by your side to shape a world where buildings and structures save energy, last longer and exceed sustainability benchmarks.

Delivering World-Class Construction Product Solutions.

The product brands housed within CPG Europe cover a wide array of different construction needs and provide a wealth of complex services, support and systems that are rarely found together under one roof.



Sealing, bonding & insulation

Window Insulation, Façade Construction, Exterior Insulation & EIFS, Structural & Inplant Glazing, Insulated Concrete Forms (ICFs)



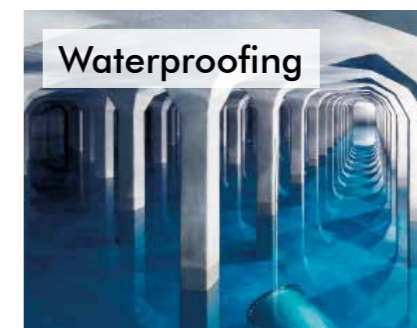
Passive fire protection

Intumescent Coatings, Fire Stopping



Flooring

Seamless Resin Flooring, Subfloor Preparation, Car Parking Structures



Waterproofing

Potable & Waste Water Industry, Balconies, Terraces, Basements & Foundations



Roofing

Liquid Applied Systems, Felt Systems, Vegetated Roofing

Europe's leading construction products brands...





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allthingsflooring.com



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