

**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 is a new generation of microbiologically clean floors that perform well in demanding conditions. Created in partnership with Polygiene®, Flowfresh harnesses silver's natural ability to inhibit the growth of microbes. The effectiveness of Flowfresh flooring systems in reducing the growth of bacteria, fungi and molds has been confirmed in accordance with 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



## Resistance Chart

### MICROBIAL EFFICACY

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

### CHEMICAL RESISTANCE

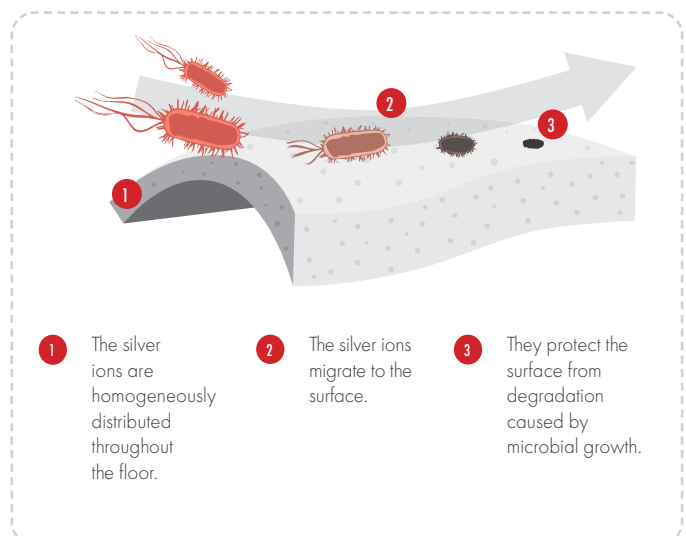
Hydrochloric Acid	✓	Methanol	✓
Sulphuric Acid	✓	Sugar Syrups	✓
Citric Acid	✓	Caustic Soda	✓
Acetic Acid	✓	Petrol	✓
Lactic Acid	✓	Oil Ingredients	✓
Phosphoric Acid		Detergents	✓

## HACCP International Certified Hygienic Flooring

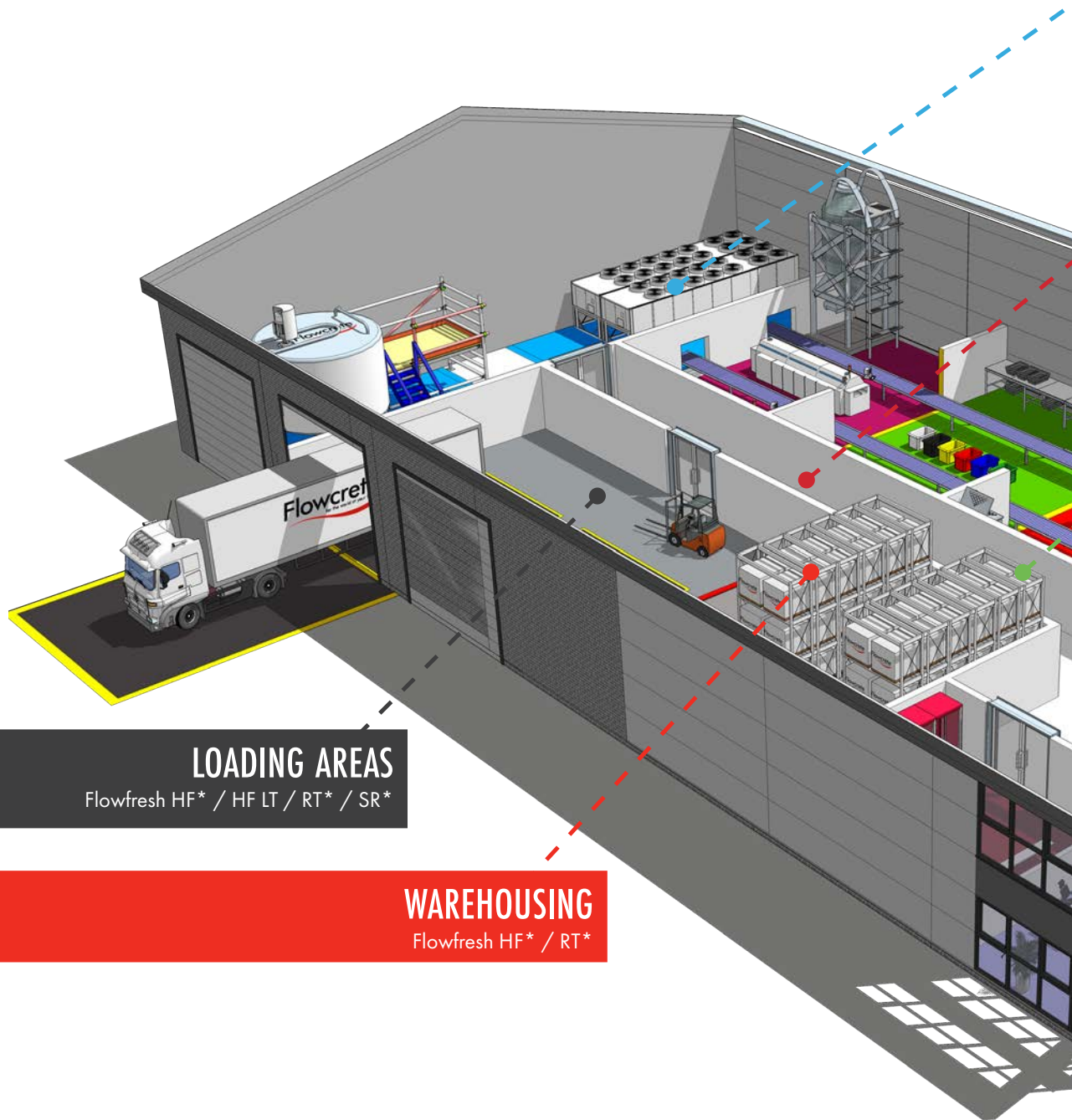
A food and beverage processing floor is subject to constant traffic, impact damage due to equipment handling and often subject to attack from chemicals and corrosive ingredients.

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.



# A GUIDE TO FLOOR ZONES



## LOADING AREAS

Flowfresh HF\* / HF LT / RT\* / SR\*

## WAREHOUSING

Flowfresh HF\* / RT\*

## Benefits of Flowfresh Flooring



Holds its own against impact, traffic and temperature.



Improved air quality during installation.



Antimicrobial additives can reduce microbes by up to 99.9%



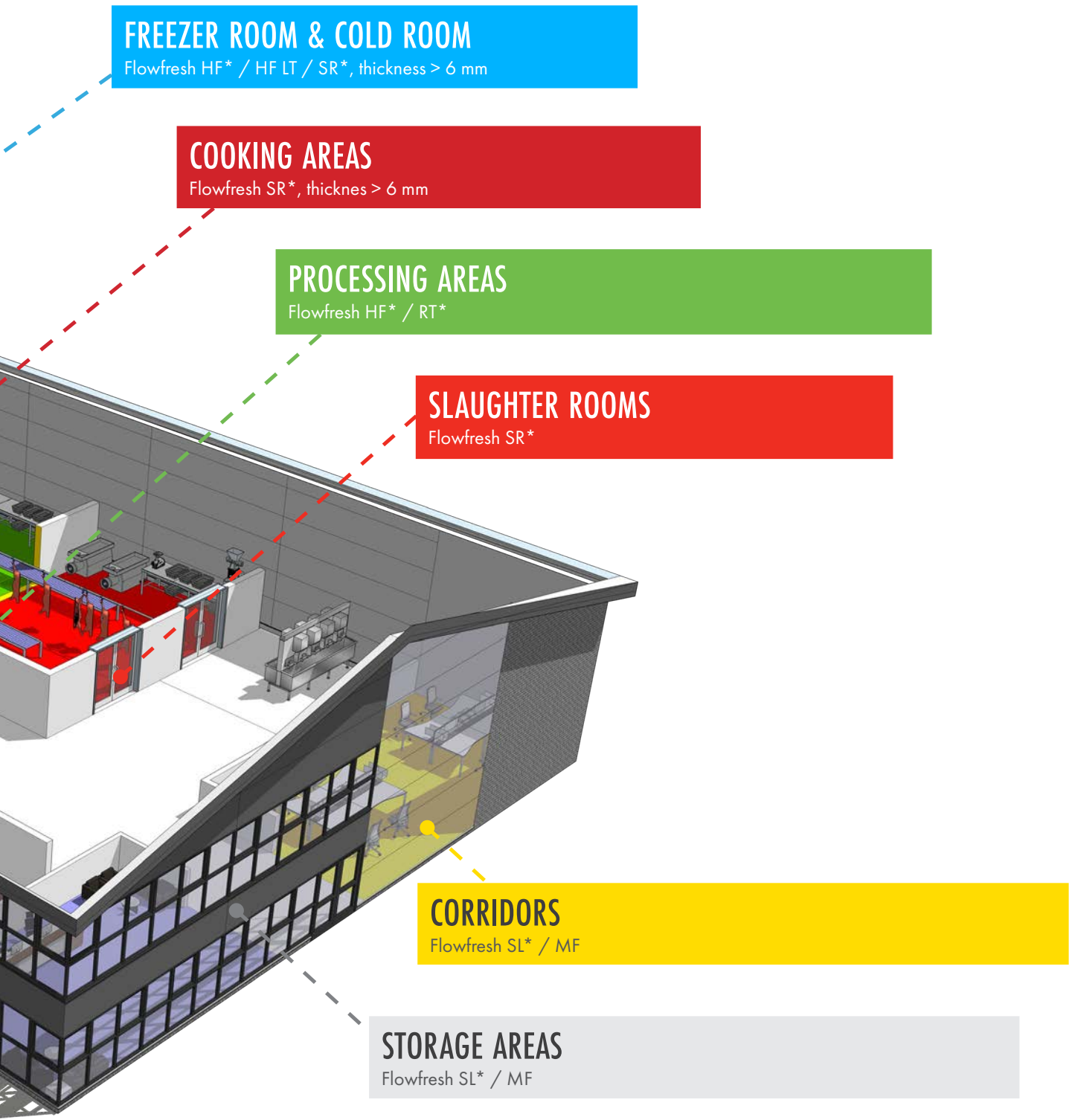
Protects against chemicals, fats, hot oils, sugar and acids.



Positively textured profile to minimise the risk of slips.



Quick systems available.



\*Quick system also suitable for this area.

# Why Specify Flowfresh Flooring Solution for Different Areas of Application?

The floor of a food 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. If you need a specification please write to: [specyfikacje@cpgeurope.com](mailto:specyfikacje@cpgeurope.com).

## Flowfresh SL (2-4 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.



Hygienic



Chemical Resistance



Durable



Easy to Clean

### Technical information

#### FIRE RESISTANCE

B <sub>fl</sub> -s1	EN 13501-1
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#### SLIP RESISTANCE

Wet > 40	EN 13036-4
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#### IMPACT RESISTANCE

IR10 (10 Nm)	EN ISO 6272
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#### WEAR RESISTANCE

AR0,5 (≤ 50 µm)	EN 13892-4
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#### WATER PERMEABILITY

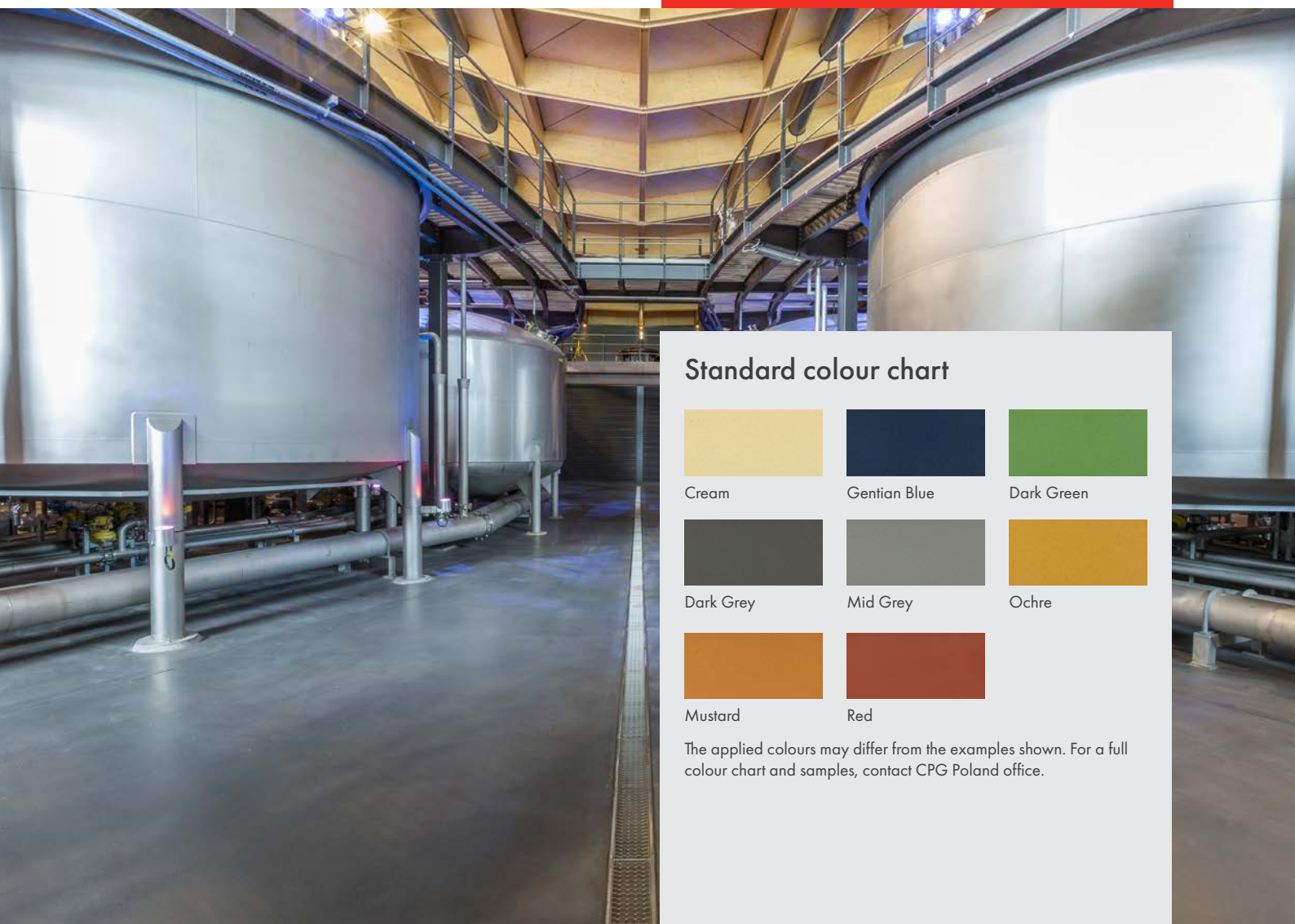
Nil (Impermeable)	Karsten Test
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#### TEMPERATURE RESISTANCE

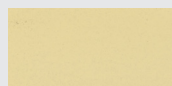
Tolerant to intermittent spillages up to +60°C & Sustained dry heat from -20°C to +50°C.



Quick System Available



### Standard colour chart



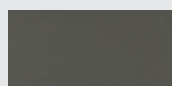
Cream



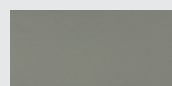
Gentian Blue



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 CPG Poland office.

## Standard colour chart



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



## Technical information

### FIRE RESISTANCE

B <sub>n</sub> -s1	EN 13501-1
--------------------	------------

### SLIP RESISTANCE

Wet > 40	EN 13036-4
----------	------------

### IMPACT RESISTANCE

IR15 (15 Nm)	EN ISO 6272
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### WEAR RESISTANCE

AR0,5 (≤ 50 μm)	EN 13892-4
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### WATER PERMEABILITY

Nil (Impermeable)	Karsten Test
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### TEMPERATURE RESISTANCE

Tolerant to intermittent spillages up to +80°C & Sustained dry heat from -20°C to +70°C.



Quick System Available

## 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.



Hygienic



Chemical Resistance



Durable



Easy to Clean

## 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

B <sub>fl</sub> -s1	EN 13501-1
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#### SLIP RESISTANCE

Wet > 40	EN 13036-4
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#### IMPACT RESISTANCE

IR20 (20 Nm)	EN ISO 6272
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#### WEAR RESISTANCE

AR0,5 (≤ 50 µm)	EN 13892-4
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#### WATER PERMEABILITY

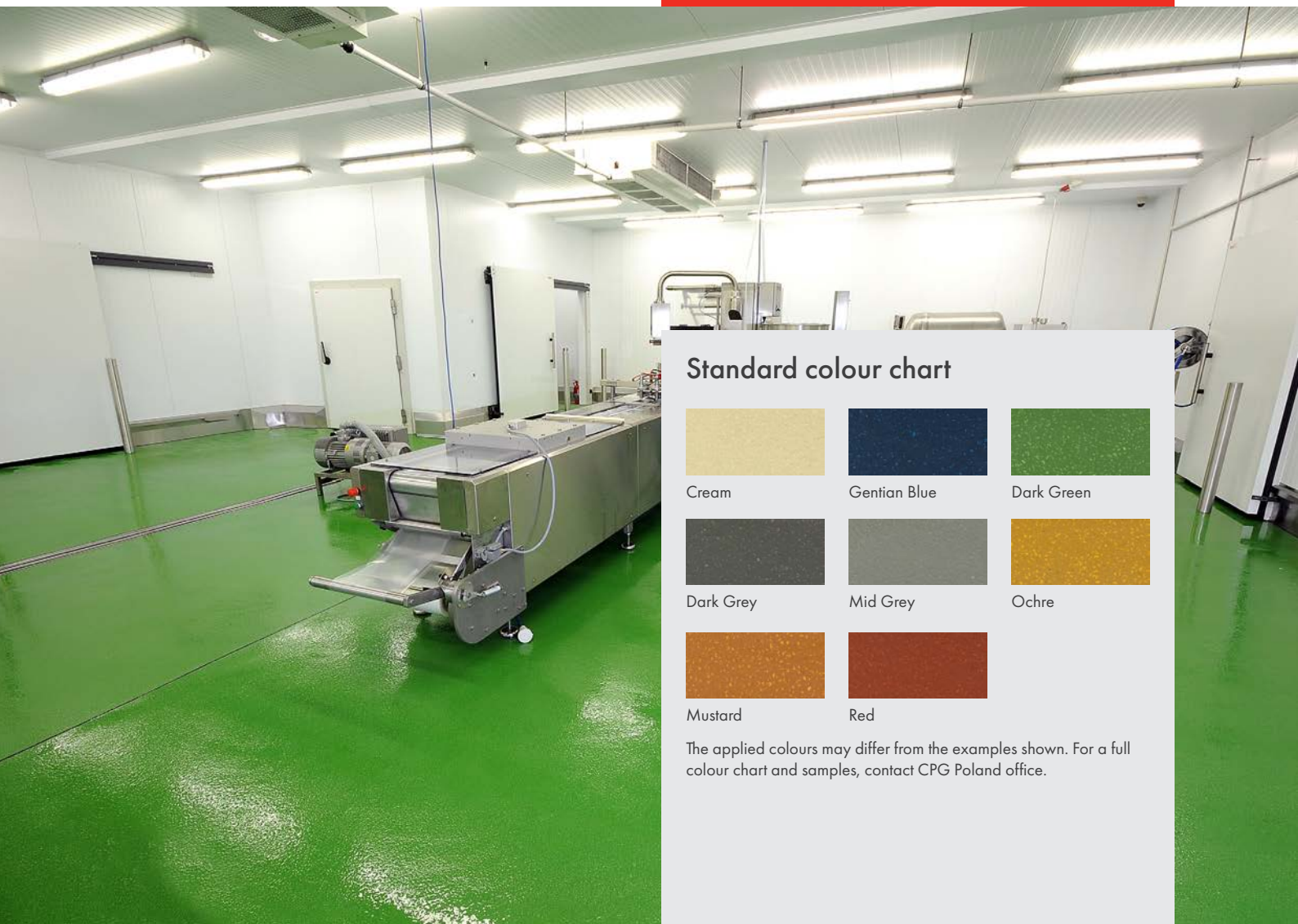
Nil (Impermeable)	Karsten Test
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#### TEMPERATURE RESISTANCE

Tolerant to intermittent spillages up to +120°C or sustained dry heat from -40°C to +105°C (at 9 mm thickness).  
Tolerant to intermittent spillages up to +70°C (at 6 mm thickness).



Quick System Available



### Standard colour chart



Cream



Gentian 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 CPG Poland office.



## Standard colour chart



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



## Technical information

### FIRE RESISTANCE

B <sub>n</sub> -s1	EN 13501-1
--------------------	------------

### SLIP RESISTANCE

Wet > 40	EN 13036-4
----------	------------

### IMPACT RESISTANCE

IR20 (20 Nm)	EN ISO 6272
--------------	-------------

### WEAR RESISTANCE

AR0,5 (≤ 50 µm)	EN 13892-4
-----------------	------------

### WATER PERMEABILITY

Nil (Impermeable)	Karsten Test
-------------------	--------------

### TEMPERATURE RESISTANCE

Tolerant to intermittent spillages up to +120°C or sustained dry heat from -40°C to +105°C (at 9 mm thickness).  
Tolerant to intermittent spillages up to +70°C (at 6 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.



Hygienic



Chemical Resistance



Slip Resistance



Temperature Resistance

## Flowfresh RT (6-9 mm)

Antimicrobial treated polyurethane resin floor screed with slip resistant 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

B <sub>fl</sub> -s1	EN 13501-1
---------------------	------------

#### SLIP RESISTANCE

Wet > 40	EN 13036-4
----------	------------

#### IMPACT RESISTANCE

IR20 (20 Nm)	EN ISO 6272
--------------	-------------

#### WEAR RESISTANCE

AR0,5 (≤ 50 μm)	EN 13892-4
-----------------	------------

#### WATER PERMEABILITY

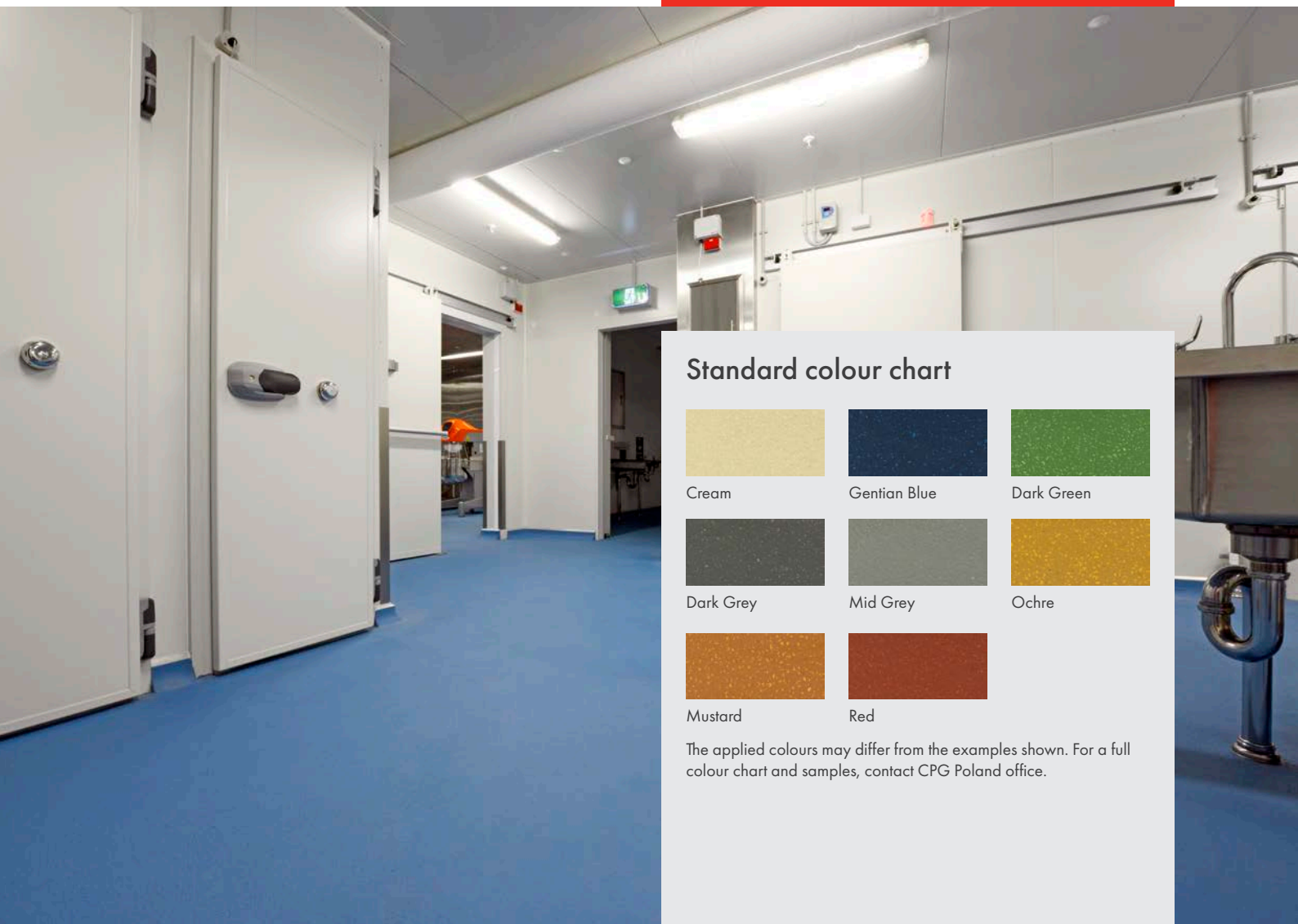
Nil (Impermeable)	Karsten Test
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#### TEMPERATURE RESISTANCE

Tolerant to intermittent spillages up to +120°C or sustained dry heat from -40°C to +105°C (at 9 mm thickness).  
Tolerant to intermittent spillages up to +70°C (at 6 mm thickness).



Quick System Available



### Standard colour chart



Cream



Gentian 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 CPG Poland office.

## Standard colour chart



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



## Flowfresh SR (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

B <sub>f</sub> -s1	EN 13501-1
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### SLIP RESISTANCE

Wet > 40	EN 13036-4
----------	------------

### IMPACT RESISTANCE

IR20 (20 Nm)	EN ISO 6272
--------------	-------------

### WEAR RESISTANCE

AR0,5 (≤ 50 μm)	EN 13892-4
-----------------	------------

### WATER PERMEABILITY

Nil (Impermeable)	Karsten Test
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### TEMPERATURE RESISTANCE

+90°C – intermittent spillages, from -20°C to +80°C – sustained heat (at 8 mm thickness)  
 +120°C – intermittent spillages, from -40°C to +105°C – sustained heat (at 9-10 mm thickness)



Quick System Available

## Flowfresh ESD SL (2-3 mm)

A conductive/ESD, self-levelling, 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



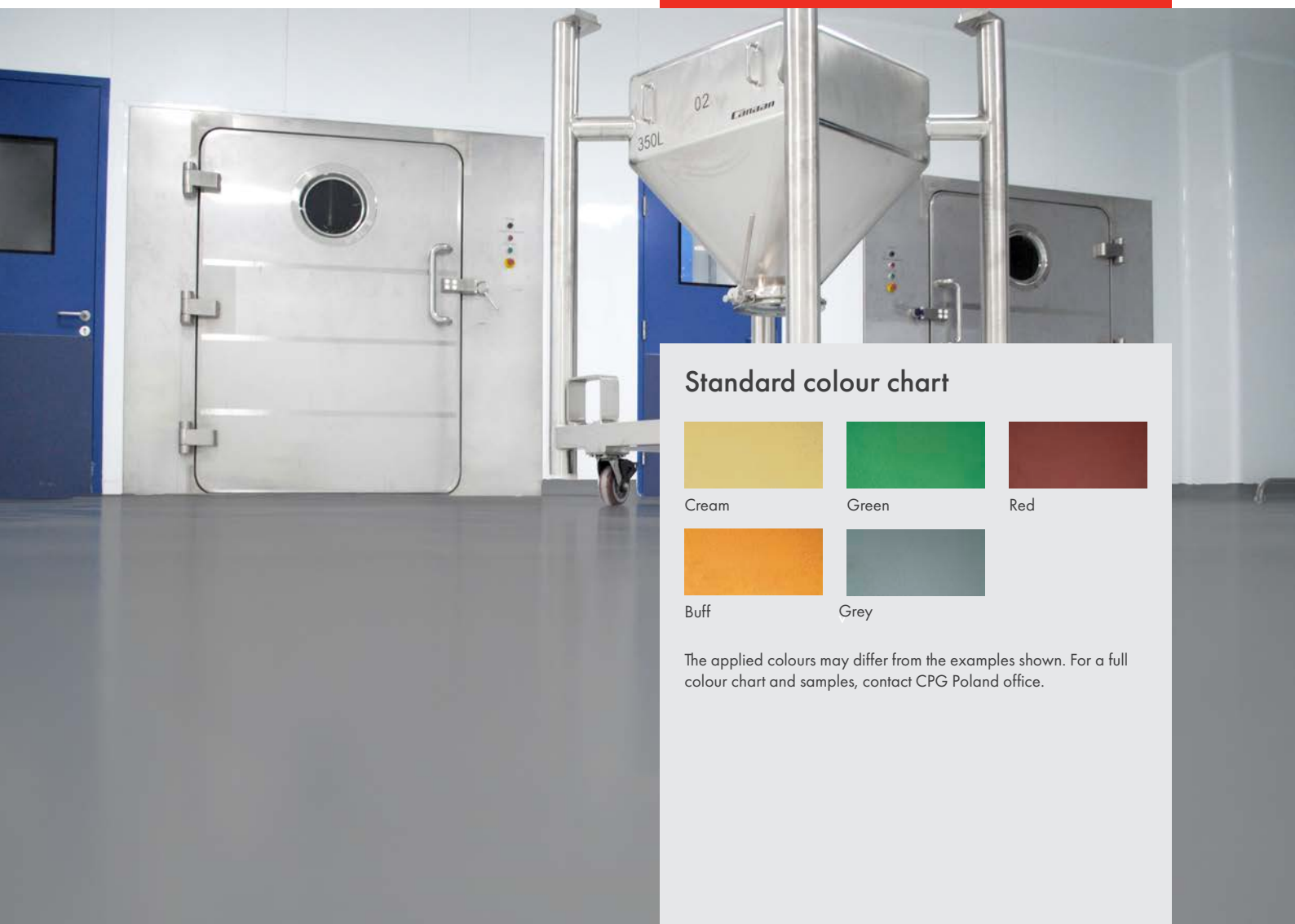
Hygienic



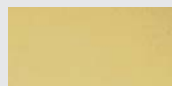
Abrasion Resistant

### Technical information

RESISTANCE TO GROUND RG	
R <sub>g</sub> < 1×10 <sup>6</sup> Ω	EN IEC 61340-4-1
FIRE RESISTANCE	
B <sub>f</sub> -s1	EN 13501-1
SLIP RESISTANCE	
Wet > 40	EN 13036-4
IMPACT RESISTANCE	
IR10 (10 Nm)	EN ISO 6272
WEAR RESISTANCE	
AR0,5 (≤ 50 μm)	EN 13892-4
WATER PERMEABILITY	
Nil (Impermeable)	Karsten Test
TEMPERATURE RESISTANCE	
Tolerant up to +70°C	



### Standard colour chart



Cream



Green



Red



Buff

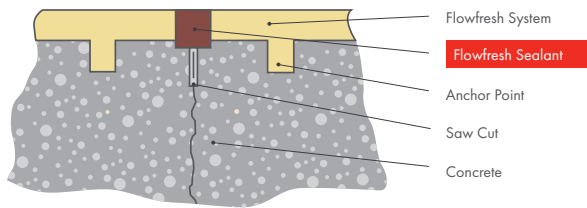


Grey

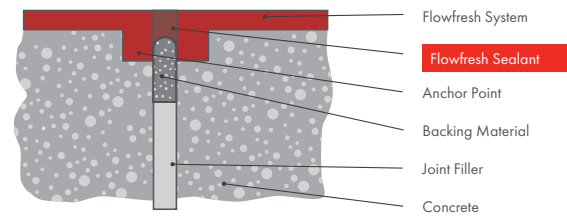
The applied colours may differ from the examples shown. For a full colour chart and samples, contact CPG Poland office.

# Typical (induced) Movement Joint

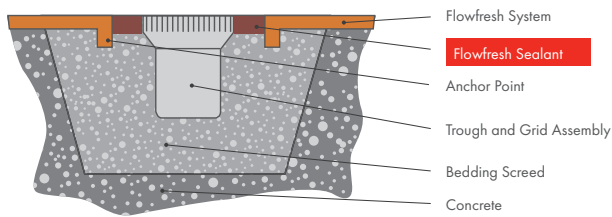
Typical (induced) Movement Joint



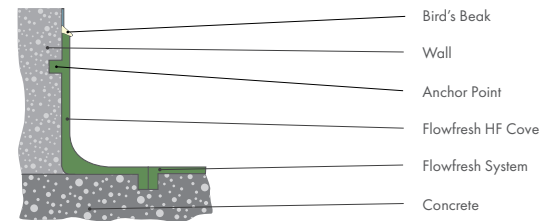
Typical (expansion) Movement Joint



Typical Drainage Chanel Arrangement



Typical Floor to Wall Detail



## Flowfresh Sealant

One-component, elastic, polymeric joint sealer with improved chemical resistance and thermal stability. Intended for sealing anti-shrinkage joints in Flowfresh floor systems and small, working cracks, work transitions, wall / floor joints, elements of machine foundation, etc. 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	✓	High mechanical and chemical resistance	✓	Resistant to food industry biological contaminants.	✓	Quick and easy application.
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### 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

# FLOWFRESH EXAMPLE OF PROJECTS



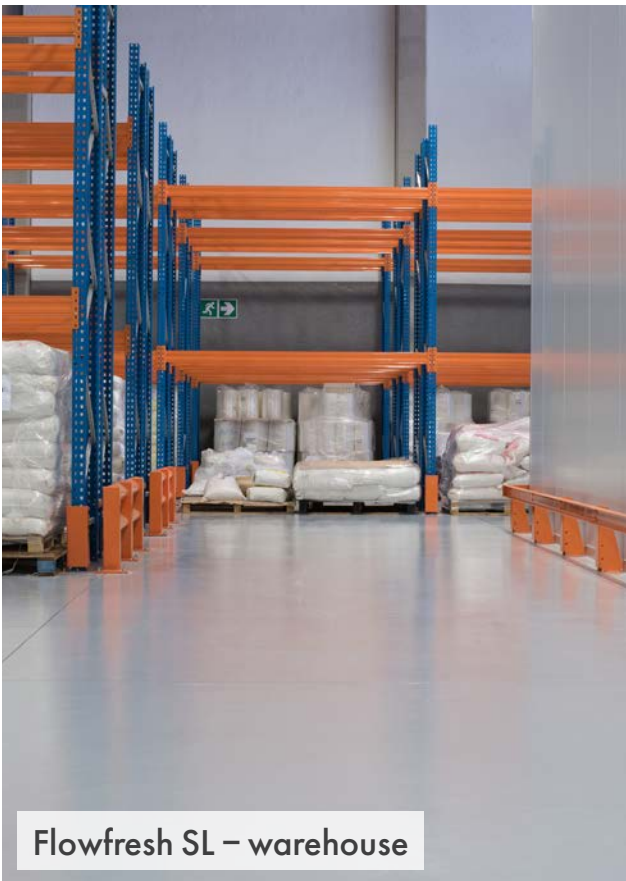
Flowfresh SR – meat industry



Flowfresh HF – fish industry



Flowfresh SR – brewery



Flowfresh SL – warehouse



Flowfresh MF – confectionery

# COMPARISON OF FLOWFRESH SYSTEMS

	FLOWFRESH SL	FLOWFRESH MF	FLOWFRESH RT	FLOWFRESH HF
THICKNESS	2–4 mm	from 4 mm to 6 mm	from 6 mm to 9 mm	from 6 mm to 9 mm
FINISH	smooth / with san	smooth / with sand	structure / with sand	structure
TEMPERATURE RESISTANCE (INTERMITTENT)	from -20°C to +50°C	from -20°C to +70°C	from -40°C to +105°C (9 mm)	from -40°C to +105°C (9 mm)
SLIP RESISTANCE (PENDULUM SLIP TEST)	Wet > 40	Wet > 40	Wet > 40	Wet > 40
FOOT TRAFFIC RESISTANCE	medium*	medium - heavy*	medium - heavy*	medium - heavy*
WHEEL TRAFFIC RESISTANCE	medium*	medium - heavy*	medium - heavy*	medium - heavy*
IMPACT RESISTANCE	IR10 (10 Nm)	IR15 (15 Nm)	IR20 (20 Nm)	IR20 (20 Nm)
ANTISTATIC PROPERTIES	—	—	—	—
APPLICATION METHOD	self-leveling	self-leveling	trowel-applied	trowel-applied
TOPPING SPEED OF CURE (FOOT TRAFFIC IN TEMP. +20°C)	24 h	24 h	24 h	24 h
QUICK VERSION AVAILABLE (REFERS TO TOPPING)	✓	✓	✓	✓
QUICK VERSION TOPPING SPEED OF CURE (FOOT TRAFFIC IN TEMP. +20°C)	5 h	5 h	5 h	5 h
POLYGIENE® TECHNOLOGY	✓	✓	✓	✓
SEAMLESS SYSTEM	✓	✓	✓	✓

**\*Definitions:**

Light foot traffic – areas of seldom use and clean environment, e.g. server rooms, technical rooms, area for manual sorting of light packages etc.;

Medium foot traffic – areas of clean manufacturing with permanent foot traffic, in clean shoes, typically on rubber soles, eg. manufacturing and assembling electronic devices

Heavy foot traffic – constant feet traffic in dirty areas, using different kinds of shoes, eg. warehouses, handling areas,



FLOWFRESH HF LT	FLOWFRESH ESD SL	FLOWFRESH SR		
from 6 mm to 9 mm	2–3 mm	4–5 mm	6–8 mm	9+ mm
structure	smooth	with sand		
from -40°C to +105°C (9 mm)	up to +70°C	from -40°C to +105°C (9–10 mm)		
Wet > 40	Wet > 40	Wet > 40		
medium - heavy*	medium*	medium*	medium - heavy*	heavy*
medium - heavy*	medium*	medium*	medium - heavy*	heavy*
IR20 (20 Nm)	IR10 (10 Nm)	IR20 (20 Nm)		
–	✓	–		
trowel-applied	self-leveling	self-leveling	self-leveling / trowel-applied	self-leveling / trowel-applied
24 h	24 h	24 h		
–	–	✓		
–	–	5 h		
✓	✓	✓		
✓	✓	✓		

Light wheel traffic – seldom traffic of hand pallet trucks (< 100 kg weight) on full rubber wheels, manual sorting of light weight goods  
Medium wheel traffic – constant traffic of hand or electric pallet trucks (< 500 kg weight) on full, rubber wheels  
Heavy wheel traffic – constant hand or electric pallet trucks (> 1000 kg weight) traffic, wooden pallets dragging



# Construction Products Group Europe

CPG Europe manufactures high performance building materials in order to solve the complex challenges faced by today's construction industry. It is the home for multiple European construction product brands, including illbruck, Flowcrete, Nullifire, Tremco, Vandex, Dryvit and Nudura. 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.

From joint sealing, bonding and insulation through to passive fire protection, flooring, waterproofing and roofing solutions- the product brands housed within CPG Europe cover a wide array of different construction needs. Combined with the wealth of expertise, services and support we provide a truly unique offer - to make our customers more successful time after time.

CPG Europe is part of RPM International Inc. - one of the world's leading construction products companies for both the industrial and consumer segments.

## Our Values



COLLABORATION



HONESTY &  
INTEGRITY



RESPECT



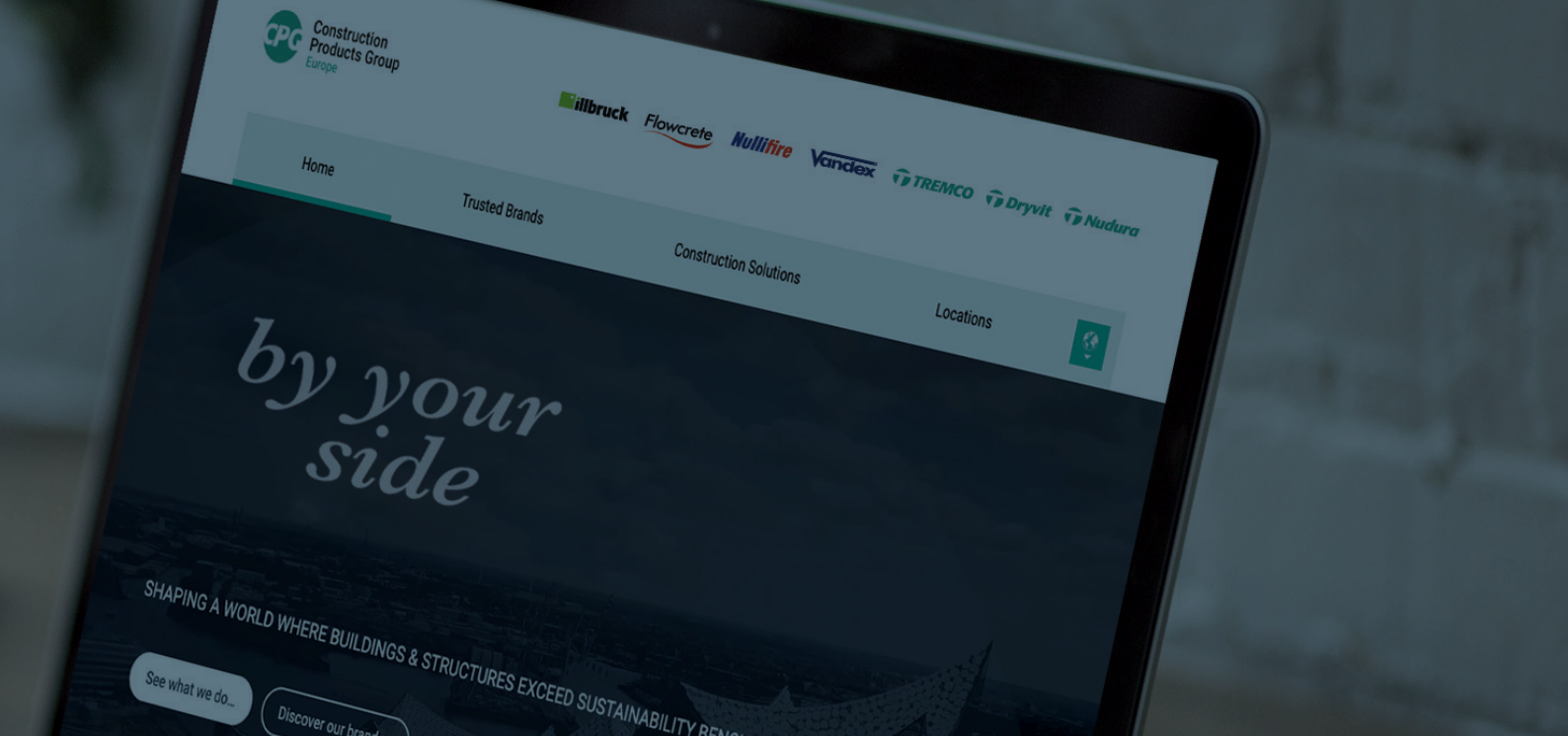
ENGAGEMENT



SUSTAINABLE  
DEVELOPMENT

Europe's leading construction products brands...





## 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.



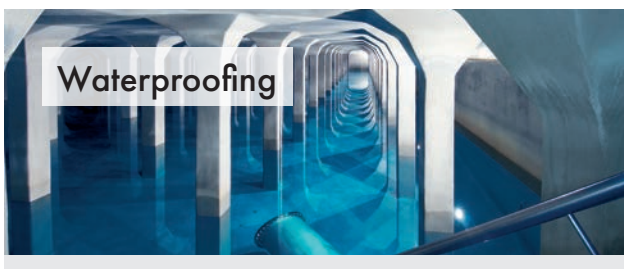
Window Insulation, Façade Construction, Exterior Insulation & EIFS, Structural & Inplant Glazing, Insulated Concrete Forms (ICFs)



Intumescent Coatings,  
Fire Stopping



Seamless Resin Flooring, Subfloor Preparation,  
Car Parking Structures



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



Liquid Applied Systems, Felt Systems,  
Vegetated Roofing



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