

Flowcrete

for the world at your feet



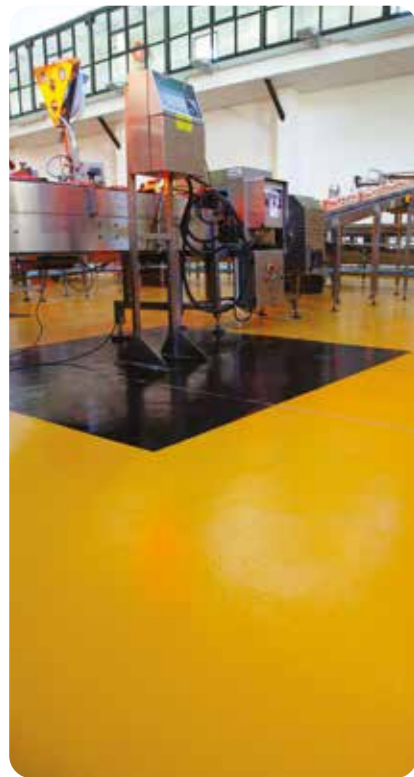
EUCLID CHEMICAL



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.

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.

Flowfresh meets the ISO 22196 standard of evaluating the antimicrobial activity of antimicrobial treated plastics and other non-porous surfaces.



Application Suitability



Food & Beverage Meat & Fish Bakeries & Confectionery Food Preparation & Kitchens Hospitals & Healthcare Pharmaceutical Environments

Resistance Chart

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

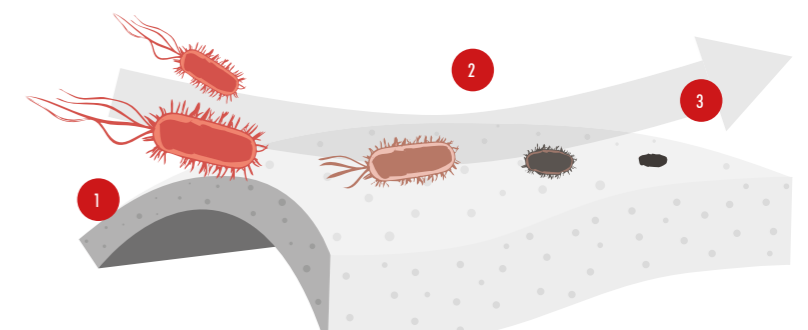
*A chemical resistance chart is available on request.

Complementary Products

	DESCRIPTION	USES
Isopol SBR	A styrene butadine (SBR) polymer latex screed additive and bonding agent.	Used to produce polymer modified wearing screeds for heavy duty applications.
Peran STC	A 2-component, epoxy-based, clear resin system good resistance to light, good durability to early contact with water (24 hours @ 20°C), and a high resistance to chemicals.	Peran STC is used as a primer, binder and topcoat, primarily in systems with decorative aggregates and flakes.
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 97% (to BS 8204).	For priming concrete and screeds, prior to overcoating with the Flowfresh flooring system.
Peran TCW	A thixotropic 2-component epoxy topcoat that produces a hard impermeable and repellent surface with good chemical resistance.	Applied to skirting and coves as a thixotropic seal coat.
Hydraseal DPM	A 2-component, solvent-free, epoxy resin prime for damp cementitious substrates with a Relative Humidity up to 100% (BS 8204).	Used as a primer for very damp substrates (with no visible surface moisture) where other primers are not suitable.
Flowfresh HF Cove	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.
Flowseal PU Satin	A 2-component, water-based, aliphatic clear sealer with a satin finish.	Applied as a UV stable, abrasion resistant seal coat.
Flowseal PU Matt Ultra	As a protective coating for Flowcrete screeds, toppings and third party resilient floorings.	Applied as a UV stable, abrasion resistant seal coat.
Euco QWIKjoint UVR	A fast-setting, semi-rigid polyurea, primarily used for filling construction and control joints	Fills construction and control joints in industrial and commercial concrete floors.

Polygiene®: How does it work?

Polygiene® is a natural silver-ion antimicrobial that is homogeneously distributed throughout the Flowfresh cementitious urethane material.



Polygiene® is not a substitute for cleaning, but should be regarded as a complement to regular hygiene and sanitization practices.

- 1 The silver ions are homogeneously distributed throughout the floor.
- 2 The silver ions migrate to the surface.
- 3 They protect the surface from degradation caused by microbial growth.



Flowfresh MF (2-6 mm)

Smooth, matt 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 finish.



Chemical Resistant:

Protects against the majority of acids used in manufacturing processes.



Abrasion Resistant:

Holds its own against impact, traffic and chemical attack.



Hygienic:

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



Easy to Clean:

Minimal joints makes this flooring easy to sterilise.



Low Odour:

Improved air quality during installation and beyond.

Colours



Cream



Ochre



Red



Mustard



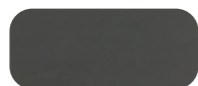
Grey



Green



Dark Blue

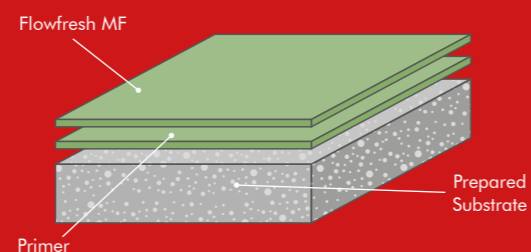


Dark Grey

Technical Profile

TEMPERATURE RESISTANCE	
from -20°C to +60°C (for 4 mm) from -25°C to +90°C (for 6 mm)	
WATER PERMEABILITY	
Karsten Test	Nil-Impermeable
FIRE RESISTANCE	
EN 13501-1	B _f -s1
SLIP RESISTANCE	
EN 13036-4 Pendulum Slip Test	Dry 60, Wet 40
COMPRESSIVE STRENGTH	
EN 13892-2	> 50 N/mm ²
FLEXURAL STRENGTH	
EN 13892-2	20 N/mm ²
TENSILE STRENGTH	
BS 6319	7 N/mm ²
BOND STRENGTH	
EN 13892-8	2,8 MPa
IMPACT RESISTANCE	
EN ISO 6272-1	IR15
BREATHABILITY	
ASTM E96:90	5 g/m ² /24 h (thickness 4 mm)
WEAR RESISTANCE	
EN 13892-2	RWA1

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	5 days



Application Suitability

Light – Medium Traffic 2mm	✓
Medium – Heavy Traffic 4-6mm	✓
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 (6–9 mm)

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 6–9 mm systems deliver a seamless joint-free matt finish.



Heat Resistant:

Resistant to temperatures of up to 120°C.



Slip Resistant:

Impressive anti-slip profile in dry and wet conditions.



Hygienic:

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



Chemical Resistant:

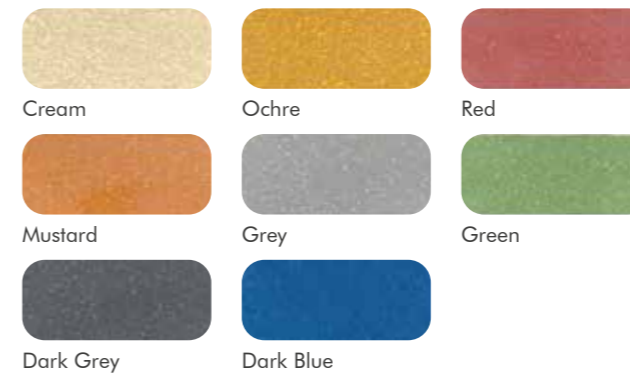
Protects against the majority of acids used in manufacturing processes.



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 the Flowcrete Polska office.

Technical Profile

TEMPERATURE RESISTANCE

from -25°C to +90°C (6 mm)
from -40°C to +120°C (9 mm)

FIRE RESISTANCE

EN 13501-1 B_f-s1

SLIP RESISTANCE

EN 13036-4 HF: Dry 80, Wet 40
RT: Dry 80, Wet 40

COMPRESSIVE STRENGTH

EN 13892-2 > 50 N/mm²

FLEXURAL STRENGTH

EN 13892-2 20 N/mm²

TENSILE STRENGTH

BS 6319 > 10 N/mm²

BOND STRENGTH

EN 13892-8 2,8 MPa

IMPACT RESISTANCE

EN ISO 6272-1 IR20

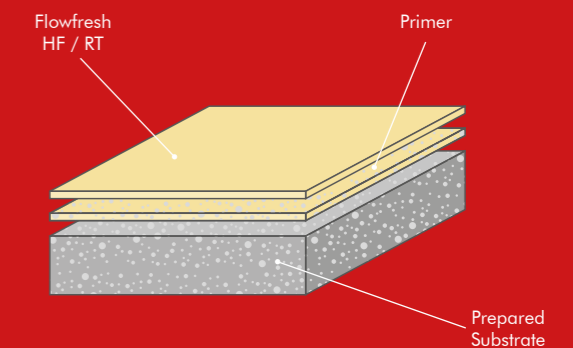
BREATHABILITY

ASTM E96:90 3 g/m²/24 h (thickness 9 mm)

WEAR RESISTANCE

EN 13892-5 RWA1

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	5 days





Flowfresh SR (4-9 mm)

Flowfresh SR is 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 5mm to 6mm system delivers an anti-slip floor finish.



Chemical Resistant:

Protects against the majority of acids used in manufacturing processes.



Abrasion Resistant:

Holds its own against impact, traffic and chemical attack.



Hygienic:

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



Thermal Resistant:

Heat resistant up to 120°C.



Slip Resistant:

Non-slip in both dry, and wet conditions.

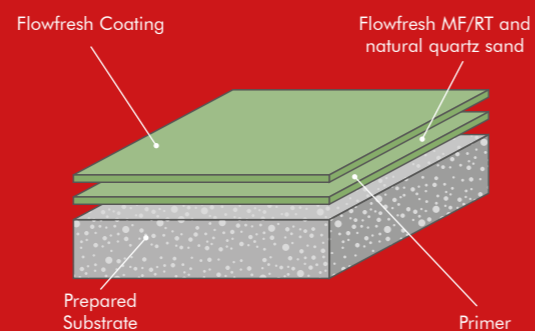
Colours



Technical Profile

TEMPERATURE RESISTANCE	
from -25°C to +90°C (6 mm) from -40°C to +120°C (9 mm)	
FIRE RESISTANCE	
EN 13501-1	B _f -s1
SLIP RESISTANCE	
EN 13036-4	Dry 90, Wet 65
COMPRESSIVE STRENGTH	
EN 13892-2	> 50 N/mm ²
FLEXURAL STRENGTH	
EN 13892-2	20 N/mm ²
TENSILE STRENGTH	
BS 6319	7 N/mm ²
BOND STRENGTH	
EN 13892-8	2,8 MPa
IMPACT RESISTANCE	
EN ISO 6272-1	IR15
BREATHABILITY	
ASTM E96:90	3 g/m ² /24 h (thickness 9 mm)
WEAR RESISTANCE	
EN 13892-5	RWA1

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	5 days



Application Suitability

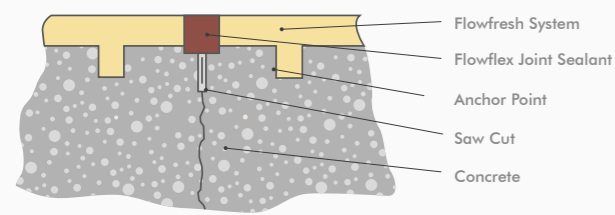
Dry Process (Med/Heavy Traffic)	
Wet Process (Med/Heavy Traffic)	✓
Industrial Kitchens / Wash Areas	✓
Packaging Areas	
Chemical / Solvent Stores	✓
Loading Bays	✓
Laboratories / Quality Control	
Dispensaries	✓
Cold Stores / Freezers	✓



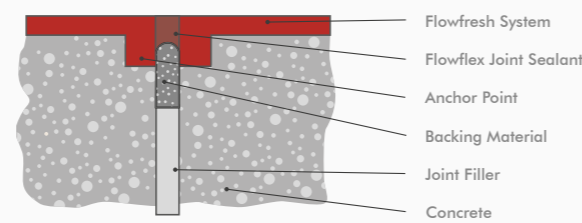
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Joint Details

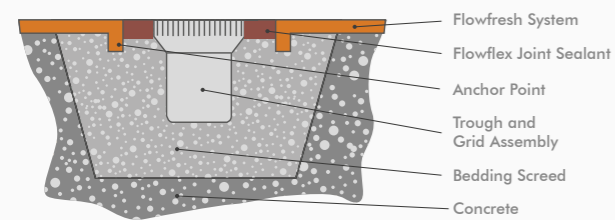
Typical (induced) Movement Joint



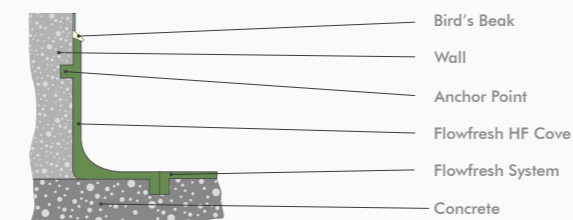
Typical (expansion) Movement Joint



Typical Drainage Chancel Arrangement



Typical Floor to Wall Detail






Colours



Euco QWIKjoint UVR

A fast-setting, semi-rigid polyurea, primarily used for filling construction and control joints in industrial and commercial concrete floors.

It can be shaved flush with the floor shortly after placement or up to 24 hours later. It also supports and protects joint edges from heavy loads and wheel traffic, reducing spalling of the joint edges.

-  Tough performance reduces floor joint repairs and maintenance.
-  Fast setting formula reduces downtime.
-  Will cure in temperatures as low as -29°C.

Technical Profile

ADHESION TO CONCRETE	
ASTM D 4541	1.7 N/mm ²
TENSILE STRENGTH	
ASTM D 638	8.9 N/mm ²
SHAVE "WINDOW"	
1 to 24 hours	
ELONGATION AT BREAK	
ASTM D 638	249%
VISCOSITY	
ASTM D 2196	Part A: 2,000 cp Part B: 1,800 cp
TACK-FREE TIME	
3 to 4 minutes	
TRAFFIC READY TIME	
Light Traffic: 1 hour Heavy Traffic: 2 hours	



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