



HACCP Internationally Certified Polyurethane Cement flooring solutions for heavy industry and hygiene critical environments.

## FLOWFRESH HYGIENIC RESIN FLOORING SOLUTIONS



# APPLICATION SUITABILITY



Abattoirs



Bakeries & Confectionery



Bottling Plants & Breweries



Dairies & Hatcheries



Food Manufacturing



Food Preparation



Healthcare & Hospitality



Poultry & Seafood

## 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.

The Flowfresh range is HACCP Internationally certified, providing peace of mind that facilities have chosen a fit for purpose flooring solution. Flowfresh is also engineered with a 100% phthalate-free formulation containing no adipates or terephthalates, delivering a safer and more hygienic solution for the food and beverage industry. Unlike many conventional phthalate-free alternatives that still rely on plasticisers which may migrate or lose performance over time, Flowfresh is designed for long term performance and preserves its structural integrity under demanding operational conditions.



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Flowfresh is a robust polyurethane cement flooring system designed to meet the unique demands of food and beverage manufacturing, processing and storage facilities. Its seamless, non-porous surface supports hygiene protocols by simplifying cleaning and minimizing contamination risks.

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.

Flowfresh is also tested to ISO 22196, the international standard of evaluating antibacterial activity on non-porous surfaces.

Resistance Chart

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

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

\*A chemical resistance chart is available on request.



# SYSTEM COMPONENTS

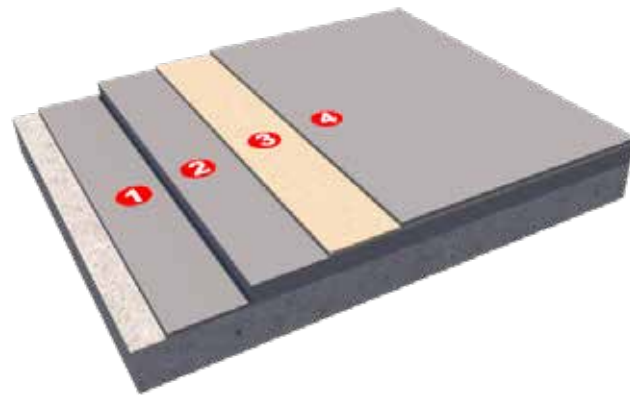
|                         | DESCRIPTION                                                                                                                                                                                                        | USES                                                                                                                |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Flowfresh Primer        | A 3-component, water-based, polyurethane primer for concrete and cementitious substrates. Flowfresh Primer will bond to surface dry substrates that have a Relative Humidity up to 97% (ASTM F2170 (AS1884:2012)). | For priming concrete and screeds, prior to overcoating with the Flowfresh flooring system.                          |
| Flowfresh SL/MF         | 3-component, polyurethane cement-based solution for the Flowfresh range.                                                                                                                                           | Used as a base coat to Flowfresh flooring systems e.g. Flowfresh SR or as a standalone solution for dry processing. |
| 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 Sealer        | 2-component, full gloss polyurethane sealer with low odour.                                                                                                                                                        | Used as a sealer to Flowfresh flooring systems e.g. Flowfresh SR.                                                   |
| Flowfresh Coating       | 3-component, matte polyurethane cement sealer with low odour.                                                                                                                                                      | Used as a sealer to Flowfresh flooring systems e.g. Flowfresh SR.                                                   |
| Flowfresh RT            | 4-component, polyurethane screed with light textured finish.                                                                                                                                                       | Used in heavy duty wet processing environments.                                                                     |



# SYSTEM BUILD UPS



## Flowfresh SR 4-9mm Satin



A heavy duty, phthalate-free, polyurethane resin floor system offering an anti-slip, chemical resistant and easy to clean textured satin finish.

- |                    |                           |
|--------------------|---------------------------|
| 1 Flowfresh Primer | 3 Aggregate Layer         |
| 2 Flowfresh SL/MF  | 4 Flowfresh Coating Satin |

Best suited to wet processing zones such as food manufacturing, preparation areas, commercial kitchens and chemical processing plants.



### Hygienic:

HACCP Internationally Certified and phthalate-free.



### Thermal Resistant:

4mm between -5 to 80°C.  
6mm between -15 to 100°C.  
9mm between -40 to 120°C.



### Slip Resistant:

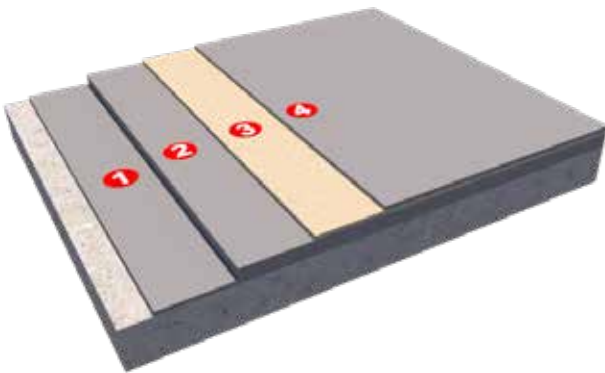
Impressive anti-slip profile in dry and wet conditions.



### Easy to Clean:

Easy to clean solution thanks to its satin finish.

## Flowfresh SR 4-9mm Matte



A matte finished, phthalate-free, chemically resistant and durable polyurethane cement flooring system with positively textured profile underfoot.

- |                    |                     |
|--------------------|---------------------|
| 1 Flowfresh Primer | 3 Aggregate Layer   |
| 2 Flowfresh SL/MF  | 4 Flowfresh Coating |

Best suited to wet processing zones subjected to high volumes of foot traffic.



### Hygienic:

HACCP Internationally Certified and phthalate-free.



### Thermal Resistant:

4mm between -5 to 80°C.  
6mm between -15 to 100°C.  
9mm between -40 to 120°C.



### Slip Resistant:

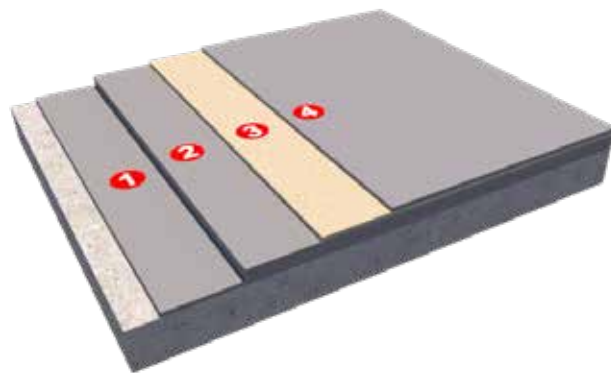
Impressive anti-slip profile in dry and wet conditions.



### Chemical Resistant:

Resistant against a wide range of commonly used chemicals.

## Flowfresh SR 4-6mm Gloss



A glossy, phthalate-free, heavy-duty hybrid polyurethane cement flooring solution, with a positively textured slip resistant finish.

- |                    |                    |
|--------------------|--------------------|
| 1 Flowfresh Primer | 3 Aggregate Layer  |
| 2 Flowfresh SL/MF  | 4 Flowfresh Sealer |

Best suited to heavy duty wet processing areas that require a glossy finish.



### Hygienic:

HACCP Internationally Certified and phthalate-free.



### Thermal Resistant:

Resistant to temperatures:  
4mm between 0 to 65°C.  
6mm between 0 to 80°C.



### Slip Resistant:

Impressive anti-slip profile in dry and wet conditions.



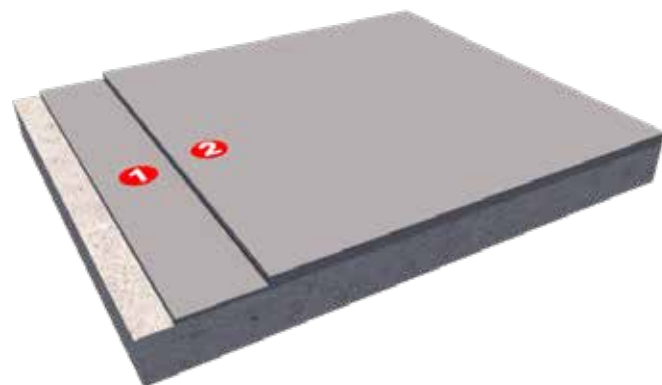
### Attractive Finish:

High gloss sealer delivers the wow factor.



# SYSTEM BUILD UPS

## Flowfresh MF 3-4mm



A pigmented, self-smoothing, phthalate-free, chemical resistant, polyurethane resin-based floor finish.

- 1 Flowfresh Primer
- 2 Flowfresh MF

Best suited to packaging areas and processing zones subject to light-medium foot and wheeled traffic.

## Flowfresh SRQ 4-6mm



A heavy duty, chemical resistant and hygienic hybrid resin flooring system with a decorative coloured quartz finish.

- 1 Flowfresh Primer
- 2 Flowfresh MF
- 3 Coloured Quartz Layer
- 4 Flowfast 319 Flexible Sealer
- 5 Flowfast 319 Flexible Sealer

Best suited to internal wet processing and food preparation areas that require a rapid curing solution.

## Flowfresh RT 6-9mm



A heavy duty, phthalate-free, hygienic PU screed providing a highly durable, lightly textured finish with excellent chemical and temperature resistance.

- 1 Flowfresh Primer with Quartz Scatter (if required)
- 2 Flowfresh RT

Best suited to heavy duty wet processing areas in F&B facilities.



- Hygienic:**  
HACCP Internationally Certified and phthalate-free.
- Thermal Resistant:**  
-15°C to 90°C at 4mm.
- Chemical Resistant:**  
Protects against the majority of acids used in manufacturing processes.
- Durable:**  
Holds its own against impact, traffic and chemical attack.

- Rapid Curing:**  
MMA additives speed up cure time, reducing construction schedules.
- Thermal Resistant:**  
Tolerant of sustained temperatures up to 70°C.
- Resistant:**  
Holds its own against impact, traffic and chemical attack.
- Slip Resistant:**  
Provides slip resistance for traction underfoot.

- Extremely Hard Wearing:**  
A hard-wearing & abrasion resistant finish to protect the substrate below.
- Temperature Resistant:**  
Resistant to extreme temperatures, from -45°C to 120°C (at 9mm).
- Slip Resistant:**  
Lightly textured finish provides a safe environment for workers.
- Hygienic:**  
HACCP International Certified and phthalate-free.



# CONCRETE REPAIR SOLUTIONS



EUCLID CHEMICAL

## TECHNICAL PROFILE

|                             |                        |
|-----------------------------|------------------------|
| GEL TIME:                   |                        |
| 25 - 30 Seconds             |                        |
| TRAFFIC READY TIME:         |                        |
| Light Traffic: 1 Hour       | Heavy Traffic: 2 Hours |
| SHORE D HARDNESS:           |                        |
| ASTM D2240                  | 34 to 36               |
| SHORE A HARDNESS:           |                        |
| ASTM D2240                  | 84 to 88               |
| TENSILE STRENGTH AT 7 DAYS: |                        |
| ASTM D412                   | 4.6 MPa                |
| ELONGATION AT 7 DAYS:       |                        |
| ASTM D412                   | 220% to 260%           |

## USAGE/PURPOSE

- Concrete construction & control joints.
- Crack and joint repair for old floors.
- Industrial and commercial floors.
- Freezer floors.

## EUCO QWIKJOINT UVR



### UV-Resistant Polyurea Floor Joint Filler

EUCO QWIKjoint UVR represents a new generation of polyurea technology with features and benefits unlike any other polyurea joint filler on the market. It resists fading from ultraviolet light greater than any existing product. It is 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 supports and protects joint edges from heavy loads and wheel traffic, reducing spalling of the joint edges.



Unparalleled UV resistance.



Fast setting formula reduces downtime.



Tough performance reduces floor joint repairs and maintenance.

For a full Technical Profile, contact your local Technical Department.

**Flowcrete**  
for the world at your feet



## TECHNICAL PROFILE

### CONSISTENCY:

|           |        |
|-----------|--------|
| ASTM C881 | 6.4 mm |
|-----------|--------|

### POT LIFE:

|           |            |
|-----------|------------|
| ASTM C881 | 13 Minutes |
|-----------|------------|

### GEL TIME (60G MASS):

|                              |                               |                               |
|------------------------------|-------------------------------|-------------------------------|
| ASTM C881                    |                               |                               |
| Class A - 3°C:<br>38 Minutes | Class B - 10°C:<br>20 Minutes | Class C - 24°C:<br>14 Minutes |

### BOND STRENGTH:

|                            |                             |                             |
|----------------------------|-----------------------------|-----------------------------|
| ASTM C882 - 2 Days         |                             |                             |
| Class A - 3°C:<br>19.7 MPa | Class B - 10°C:<br>22.8 MPa | Class C - 24°C:<br>24.7 MPa |
| ASTM C882 - 14 Days        |                             |                             |
| Class A - 3°C:<br>19.2 MPa | Class B - 10°C:<br>28.2 MPa | Class C - 24°C:<br>27.2 MPa |

\*Pot life is measured as the workable time of 3.8 L of DURAL HS GEL when mixed at 24°C.

## DURAL HS GEL



### High Strength Epoxy Gel for Anchoring and Doweling

DURAL HS GEL is a two-component, 1:1 mix structural epoxy designed for repair of isolated substrate defects, anchoring and doweling. Usable in temperatures from 4 to 43°C. Tested per ASTM E488 and E1512, it resists static, dynamic, and wind loads in uncracked concrete for threaded rod and rebar.

- Pick-proof sealant for jails/prisons and kennels.
- General purpose epoxy adhesive.
- Setting of injection ports and sealing cracks for crack injection.

## TECHNICAL PROFILE

### COMPRESSIVE STRENGTH:

|                |                  |
|----------------|------------------|
| ASTM C109      |                  |
| 3 Hrs: 20 MPa  | 1 Day: 40 MPa    |
| 7 Days: 55 MPa | 28 Days: <65 MPa |

### FLEXURAL STRENGTH:

|                |                 |                  |
|----------------|-----------------|------------------|
| ASTM C348      |                 |                  |
| 1 Day: 3.7 MPa | 7 Days: 6.9 MPa | 28 Days: 7.6 MPa |

### SPLIT TENSILE STRENGTH:

|                 |                  |
|-----------------|------------------|
| ASTM C496       |                  |
| 7 Days: 2.1 MPa | 28 Days: 3.3 MPa |

### SLANT SHEAR BOND STRENGTH:

|                 |                  |                   |
|-----------------|------------------|-------------------|
| ASTM C882       |                  |                   |
| 1 Day: 10.3 MPa | 7 Days: 14.5 MPa | 28 Days: 19.3 MPa |

\*Compressive strength results published above are typical based on laboratory testing using 50mm cubes and tested at 11% water. Variations of these results can be expected if alternative sample sizes, or test methodology is used.

## VERSASPEED LS100



### Rapid Hardening Repair Mortar With Extended Working Time

VERSASPEED LS100 is a single-component, rapid-strength repair mortar for horizontal and form-and-pour projects. Just add water for easy use on 6mm to 150mm thick repairs. It offers fast turnaround, corrosion protection, and low chloride permeability.

- Overcoat with moisture sensitive coatings after 5 hours @ 21°C.
- Suitable for interior or exterior applications.
- Open to light duty traffic in as little as 4 hours.

## EUCO QWIKSTITCH



### Rapid Setting Polyurethane Hybrid Crack and Spall Repair

EUCO QWIKstitch is a fast-curing, ultra-low viscosity hybrid urethane for concrete crack repair. Mixed with aggregate, it forms a durable mortar ideal for quick pavement repairs, even in temperatures as low as -18°C.

- Low VOC and no solvent odour.
- Can be used for concrete & asphalt repairs.
- Very fast cure time. Can be opened to traffic in as little as 30 minutes.

## TECHNICAL PROFILE

### COMPRESSIVE STRENGTH (MORTAR):

|                 |                |                  |
|-----------------|----------------|------------------|
| ASTM C579B      |                |                  |
| 1.5 Hrs: 28 MPa | 24 Hrs: 42 MPa | 7 Days: 45 MPa + |

### COMPRESSIVE STRENGTH (NEAT RESIN):

|                   |                  |
|-------------------|------------------|
| ASTM D695         |                  |
| 1.5 Hrs: 31.7 MPa | 24 Hrs: 34.8 MPa |

### TENSILE STRENGTH:

|                  |  |
|------------------|--|
| ASTM D638        |  |
| 7 Days: 23.5 MPa |  |

### GEL TIME / WORKING TIME:

2 to 3 Minutes

### TACK FREE TIME:

10 Minutes

### VOC CONTENT:

19 g/L

## EUCOCRETE HBM



### Thixotropic High Build Repair, Construction & Waterproofing Mortar

Eucocrete HBM is a high-strength, fiber-reinforced, chemical-resistant mortar for repairing and protecting vertical, overhead, and horizontal concrete, as well as embedded steel.

- Excellent abrasion resistance and durability.
- Life span greater than 10 years if applied correctly.
- Waterproof, highly impermeable.

## TECHNICAL PROFILE

### DETERMINATION OF COMPRESSIVE STRENGTH:

|                   |                       |
|-------------------|-----------------------|
| UNE-EN 12190:1999 | 57.6 N/mm² (Class R4) |
|-------------------|-----------------------|

### CARBONATION RESISTANCE:

|                   |                                   |
|-------------------|-----------------------------------|
| UNE-EN 13295:2005 | Dk ≤ reference concrete MC (0.45) |
|-------------------|-----------------------------------|

### ELASTIC MODULUS:

|                   |          |
|-------------------|----------|
| UNE-EN 13412:2008 | 23.8 GPa |
|-------------------|----------|

### CHLORIDE ION CONTENT:

|                     |        |
|---------------------|--------|
| UNE-EN 1015-17:2000 | <0.01% |
|---------------------|--------|

### CAPILLARY ABSORPTION:

|                   |                    |
|-------------------|--------------------|
| UNE-EN 13057:2002 | 0.2 kg/(m² x h0.5) |
|-------------------|--------------------|

### COEFFICIENT OF THERMAL EXPANSION:

|                  |              |
|------------------|--------------|
| UNE-EN 1770:1990 | 14.2 µm/m °C |
|------------------|--------------|

### WORKING TIME AT AMBIENT (21°C):

30 Minutes

Finish colours can be achieved in either standardised RAL or AS2700 colour ranges. Our flooring solutions also feature a variety of sand colour options, allowing you to achieve the perfect texture and aesthetic.



At Tremco Construction Products Group (CPG) Australia, we're committed to shaping the future through innovative approaches and sustainable solutions. This commitment is backed up by the fact that we bring together first-class technology with a customer focused approach, along with skills that have been built up over multiple decades within very specialised fields across the Pacific, to provide a truly unique service.

### Delivering World-Class Construction Product Solutions.

The product brands housed within Tremco CPG Australia 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

#### Passive fire protection



Intumescent Coatings, Sustainable Vermiculite Alternatives

#### Flooring



Seamless Resin Flooring, Subfloor Preparation, Car Parking Structures & Pedestal Decking

#### Waterproofing



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

#### Roofing



Liquid Applied Systems, Felt Systems, Vegetated Roofing & Warm Roofing

The Pacific's leading construction products brands...

**TREMCO** **Dryvit** **Willseal** **Flowcrete** **Nullifire** **illbruck**

**Vandex** **EUCLID CHEMICAL** **DURAM** **NURALITE** **NURAJACK** **OUTRIGHT**

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