



## Flowfresh RT (6 - 9 mm)

Highly durable, antimicrobial floor with excellent heavy loads resistance

Flowfresh RT antimicrobial flooring system is tough, durable and corrosion resistance. The textured finish owns good reliability. Flowfresh RT's eco-friendly materials is low odor during the installation. This system provides excellent chemical resistance, mechanical resistance, abrasion resistance, water/hot vapor resistance, moreover, it is easy to clean and maintain. Both of dry and wet manufacturing areas are suitable to utilize this system as the flooring system, e.g. food factory, freezer, medicine, chemical factory, boiler and vapor chamber in harsh environment.



### Hygienic:

Contains an antimicrobial additive and is HACCP International Certified.



### Temperature resistance:

Resistant to extreme temperatures, from -45°C to 120°C (at 9 mm).



### High chemical resistance:

Protects against a majority of acids, bases, salts and cleaners during food/medicine manufacturing.



### Abrasion resistance:

A hard-wearing & abrasion resistant finish to protect the substrate below.



### Slip resistance:

Lightly textured finish provides a safe environment for workers.

## Technical Profile\*

<b>FIRE RESISTANCE</b>	
EN 13501-1	B <sub>1</sub> - s1
<b>SLIP RESISTANCE</b>	
Method described in BS 7976-2 (typical values for 4-S rubber slider)	Dry >40, Wet depends on specification (in accordance with HSE and UKSRG guidelines)
<b>IMPACT RESISTANCE</b>	
EN ISO 6272	20 N m
<b>WATER PERMEABILITY</b>	
Nil - Karsten test (impermeable)	
<b>VAPOUR PERMEABILITY</b>	
ASTM E96:90	3 g/m <sup>2</sup> /24 hrs (at 4 mm thick)
<b>TEMPERATURE RESISTANCE</b>	
From -25°C to 100°C (at 6 mm)	From -45°C to 120°C (at 9 mm)
<b>CHEMICAL RESISTANCE</b>	
Acids, bases, salts and detergents	
<b>ABRASION RESISTANCE</b>	
Taber Abrader (1 kg load using CS17 wheels)	0.12 g loss per 1000 cycles
<b>COMPRESSIVE STRENGTH</b>	
EN 13892-2	>50 N/mm <sup>2</sup>
<b>FLEXURAL STRENGTH</b>	
EN 13892-2	>20 N/mm <sup>2</sup>
<b>TENSILE STRENGTH</b>	
BS 6319	10 N/mm <sup>2</sup>
<b>COEFFICIENT OF THERMAL EXPANSION</b>	
ASTM C531	3.74 x 10 <sup>-5</sup> °C <sup>-1</sup>
<b>BOND STRENGTH</b>	
Greater than cohesive strength of 25 N/mm <sup>2</sup> concrete. >1.5 MPa	
<b>SPEED OF CURE</b>	
	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    6 days

\* These figures are typical properties achieved in laboratory tests at 20°C and at 50% Relative Humidity.



## Flowfresh RT (6-9 mm)

RT抗菌荷重砂漿地床

RT抗菌荷重砂漿優固地床具有抗菌、防腐蝕、高載重型、紋理表面持久耐用、可有效抑制細菌、真菌、黴菌的生長。

環保材料施工無異味、耐化學性佳、耐髒汙易清潔、耐磨損、耐機械重壓、耐熱耐水蒸汽沖洗、同質透心厚塗地床、冷熱交替尺寸安定性佳。

適用於乾燥或潮濕的生產區域，如食品廠、冷凍冷藏庫、製藥醫療、化工廠、鍋爐間及蒸汽室道等環境嚴苛場所等區域的地板塗裝用途。



### 衛生：

Polygiene® 歐盟抗菌認證，有效抑制真菌、黴菌、細菌的生長。通過國際HACCP認證。



### 耐冷熱衝擊：

材料同質透心具優異的抗冷熱衝擊，可耐受-45°C至120°C的極端溫度。(9 mm)



### 耐化學性優：

可防止食品、醫藥等製造過程中所使用的酸、鹼、鹽與清潔劑。



### 耐磨耗：

高耐磨特性、耐重壓。



### 防滑性：

輕度的紋理飾面，為現場提供了安全的作業環境。

## 產品性能\*

<b>耐燃防焰</b>	
EN 13501-1	B <sub>1</sub> - s1
<b>止滑性</b>	
依照BS 7976-2 (參考值為4-S橡膠塊)	乾>40，濕：根據設計要求 (按照HSE和UKSRG指南)
<b>耐衝擊</b>	
EN ISO 6272	20 N m
<b>透水性</b>	
無滲透 (NIL KARSTEN測試)	
<b>透氣性</b>	
ASTM E96:90	3 g/m <sup>2</sup> /24 hrs (at 4 mm 厚度)
<b>容許溫度</b>	
From -25°C to 100°C (6 mm 厚度)	From -45°C to 120°C (9 mm 厚度)
<b>耐化學性</b>	
耐酸、鹼、鹽與清潔劑	
<b>表面耐磨耗</b>	
泰伯磨耗試驗機 (CS17 磨擦輪, 加載1公斤質量)	每1000轉磨耗0.12 g
<b>抗壓強度</b>	
EN 13892-2	>50 N/mm <sup>2</sup>
<b>抗彎強度</b>	
EN 13892-2	>20 N/mm <sup>2</sup>
<b>抗拉強度</b>	
BS 6319	10 N/mm <sup>2</sup>
<b>熱膨脹係數</b>	
ASTM C531	3.74 x 10 <sup>-5</sup> °C <sup>-1</sup>
<b>接著強度 (混凝土基材)</b>	
> 1.5 MPa - 大於抗壓強度為 25 N/mm <sup>2</sup> 的混凝土的抗拉力	
<b>硬化時間</b>	
	10 °C    20 °C    30 °C
可輕荷載	36 小時    24 小時    12 小時
可高荷重	72 小時    48 小時    24 小時
完全硬化	10 天    7 天    6 天

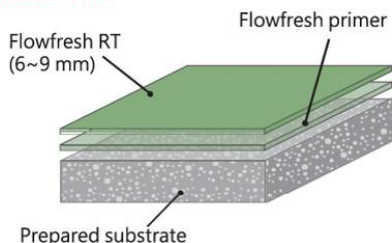
\* 以上數據為 20°C 及 50% 相對濕度的性能參數。



### 產品規格：

系 統	Flowfresh RT (6-9 mm)
完 成 面	消光

### 系統設計：



### 理論塗佈量：

底 漆	1.0~1.2 kg/m <sup>2</sup>
面 層	12 kg/m <sup>2</sup> (厚 6 mm)

### 產品包裝：

Flowfresh Primer 底漆  
三組份 · 12 kg/組

Flowfresh RT 面層  
五組份 · 29 kg/組

### 素地條件：

混凝土基層或整平層強度需大於3,000 psi。施工前表面應去除浮漿、灰塵和其它油脂污染物，需保持表面乾燥。

### 微生物/真菌抗性：

Flowfresh RT中加入了Polygiene® 抗菌添加劑，可抑制大多數與地板接觸的細菌和真菌生長。

### HACCP國際食品安全認證：

Flowfresh工業地坪系統已被確定為食品安全用建材，是由合格的評估團隊(包含專業的食品安全專員和產品評估員所組成)，根據國際標準和一系列的食安風險標準(包含潛在的物理、化學和微生物的風險)進行評估通過。適合用於潮濕和乾燥的食品處理區域，如廚房、生產作業區等等，並可符合食品安全計劃HACCP的條件。

HACCP International為全球知名的食品安全認證計劃單位，針對全球食品和飲料加工業的設備、材料、產品和服務進行認證，以確保食品的製作過程中，所使用的相關系統是適合在食品企業中使用，且符合世界最高標準。

### 維護、清潔和保養：

需定期使用合適清潔劑、洗地設備，進行清洗保養維護。

### 產品顏色：



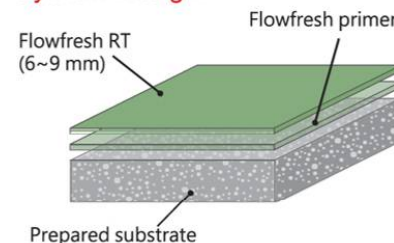
\* 實物的顏色可能與圖例有些輕微的差異



### Model Specification:

System	Flowfresh RT (6-9 mm)
Finish	Matt

### System Design:



### Consumption:

Primer	1.0~1.2 kg/m <sup>2</sup>
Finishing coat	12 kg/m <sup>2</sup> (6 mm thick)

### Packaging:

Flowfresh Primer  
3 component, 12 kg/set

Flowfresh RT finish coat  
5 component, 29 kg/set

### Substrate requirements:

Concrete/screed substrate should be a minimum of 3000 psi, free from laitance, dust and other contamination. Substrate should be surface dry and free from rising damp and ground water pressure.

### Microbial / Fungal resistance:

The Polygiene® antimicrobial additive incorporated into Flowfresh RT provides control of most bacteria and fungi which come into contact with the floor.

### HACCP International Certification:

Flowfresh has been evaluated to international standards and a set of key food safety criteria for potential physical, chemical and microbiological food safety risks by a team of degree qualified food technologists and product assessors. The Flowfresh range has been identified as food-safe for use in wet and dry food handling areas such as kitchens, production areas and processing areas operating a HACCP based Food Safety Program, noting the conditions of the certification statement SSZ. HACCP International operates a world renowned product certification scheme for equipment, materials and services used within the global food and beverage processing, production and packaging sector - confirming a product's suitability for use within food businesses that operate to the world's highest standards.

### Aftercare, Cleaning & Maintenance:

Clean regularly using proper equipment in conjunction with a suitable detergent.

### Colours:



\* The applied colors may differ from the examples shown.