

# Flowfresh HF (6-9mm)

## Description

Flowcrete HF is a 6 – 9 mm heavy duty, chemical resistant polyurethane resin floor screed.

## Uses

Ideal for wet processing zones such as chemical processing plants, secondary chemical containment zones, food manufacturing and food preparation areas.

## Benefits

- Very high chemical resistance
- Easy to clean and sterilise; minimal joints
- Heat resistant to 120°C at 9 mm
- Steam cleanable
- Non tainting, non dusting
- High abrasion resistance
- Withstands high mechanical stress
- Good alternative to expensive acid resistant tiles
- Low odour during application
- Positive slip resistance

## Substrate requirements

Concrete or screed substrate should be a minimum of 25N/mm<sup>2</sup>, free from laitance, dust and other contamination. The substrate should be dry to 75% RH as per BS 8204 and free from rising damp and ground water pressure. If no damp proof membrane is present, Hydraseal DPM can be incorporated directly beneath the Flowcrete HF system.

## Products Included In This System

**Primer:** Flowprime @ 0.25 kg/m<sup>2</sup>

or, where a dpm is required, Hydraseal DPM @ 0.5 kg/m<sup>2</sup>

or, where high heat resistance is critical, Flowfresh Primer @ 0.25 kg/m<sup>2</sup>

**Topping:** For general chemical resistance

Flowcrete HF (density 2.1 kg/l) 12.6 kg/m<sup>2</sup> @ 6 mm

For best temperature resistance

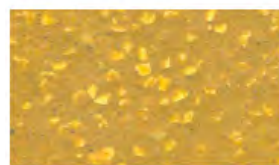
Flowcrete HF (density 2.1 kg/l) 18.9 kg/m<sup>2</sup>@ 9 mm

Flowcrete HF is a self-sealing finish.

## Life Expectancy

7 – 10 years, dependant on thickness and subject to correct maintenance regime. Flowcrete HF is not colour fast and may change colour over time (exhibits a yellowing effect). Colour change depends on the UV light and heat levels present and hence the rate of change cannot be predicted. This is more noticeable in light colours and blues but does not compromise the product's flexibility or chemical resistance characteristics. We have endeavoured to adopt colours within our standard range which minimise this change.

## Standard colour chart



Ochre



Mustard



Dark Green



Cream



Red

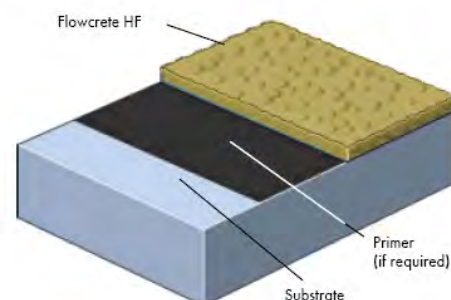


Mid Grey

The applied colours may differ slightly from the examples shown above.

Contact our customer services for a true colour sample or a special colour match.

## System design



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## System performance guide

Complies with BS8204-6 / FERFA type 8

## Technical information

The figures that follow are typical properties achieved in laboratory tests at 20°C and at 50% Relative Humidity.

Fire Resistance	BS 476:Part 7 Surface Spread of Flame: Class 2
Slip Resistance Pendulum Slip Test method described in BS 7976-2	Dry >80 Wet >40 (dependent upon texture achieved during laying)
Impact Resistance	BS 8204-1 Cat: A (< 0.5mm) ISO 6272 1kg weight >1.8m 2kg weight >1.5 m
Temperature Resistance	Tolerant up to 120°C intermittent spillages or constant 105°C dry heat at 9mm thickness
Water Permeability	Nil – Karsten test (impermeable)
Vapour Permeability	ASTM E96:90 3g/m <sup>2</sup> /24hrs (at 9mm thick)
Chemical Resistance	Go to <a href="http://www.flowcrete.com">www.flowcrete.com</a> Excellent resistance to sugars and most acids (organic and inorganic)
Abrasion Resistance	ASTM D4060 Taber Abrader: 25mg loss per 1000 cycles (1kg load using H22 wheels) BS 8204-2: Class AR2
Compressive Strength	> 50 N/m m <sup>2</sup> (BS 6319)
Flexural Strength	20 N/m m <sup>2</sup> (BS 6319)
Tensile Strength	10 N/m m <sup>2</sup> (BS 6319)
Bond Strength	Greater than cohesive strength of 25 N/m m <sup>2</sup> concrete. > 1.5 MPa.

## 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	10days	7days	5days

## Aftercare – cleaning and maintenance

Clean regularly using a single or double headed rotary scrubber drier in conjunction with a mildly alkaline detergent.



## Environmental considerations

The finished system is assessed as non-hazardous to health and the environment. The long service life and seamless surface reduce the need for repairs, maintenance and cleaning. Environmental and health considerations are controlled during manufacture and application of the products by Flowcrete staff and fully trained and experienced contractors.

