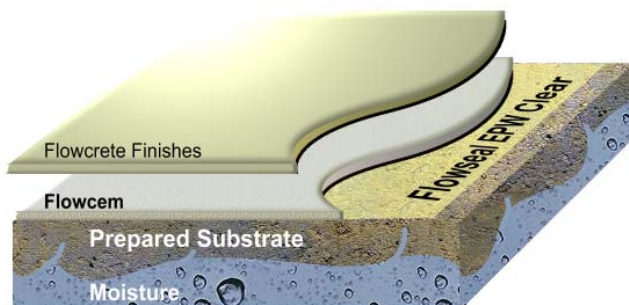


## Flowcem



### System Design



### Description

A three component, technically advanced, epoxy modified cementitious, self-smoothing screed. Acts as a surface damp proof underlayment.

### Uses

Allows installation of moisture sensitive floor finishes onto concrete and cementitious screeds which have a moisture content of up to 100% Relative Humidity (surface dry).

### Benefits

- Solvent free
- Excellent adhesion to damp concrete & screeds.
- Reduces undulation on substrate.
- Chemically and mechanically compatible with concrete chemistry, forming monolithic structure.
- Easy to apply (self smoothing).
- Low odour.
- Allows fast track installation of final finish.

### Model Specification

Product: Flowcem

Thickness: 2mm

Preparatory work and application in accordance with supplier's instructions.

Manufacturer: Flowcrete UK Ltd.

Telephone: Customer Service +44 (0)1270 753000

The installation should be carried out by a Flowcrete approved applicator.

### Products Included in this System

Primer: Flowseal EPW Clear @ 0.2 kg/m<sup>2</sup>

Flowcem @ 4.2 kg/m<sup>2</sup> for 2mm

(Density 2.1 kg/l)

An aggregate scatter can be included to enable a slip resistant surface. Detailed application instructions are available upon request.

### Focus on the Floorzone

Flowcrete are market leaders in specialist industrial and commercial flooring. Systems available include: underfloor heating systems, floor screeds, surface damp proof membranes, decorative floor finishes, seamless terrazzo, car park deck waterproofing, tank lining systems... to name just a few.

Our objective is to satisfy your Floorzone needs.

## Installation Service

The installation should be carried out by a Flowcrete approved contractor with a documented quality assurance scheme. Obtain details of our approved applicators by contacting our customer service team.

## 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 surface dry to 100% RH or less (as per BS 8204) before the application of Flowcem.

### Note:

Flowcem is not designed to resist hydrostatic water pressure. In such circumstances external tanking or pressure relief, e.g. by directed drainage, must be provided to the structure.

## 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.

## Life Expectancy

Flowcem is in practice a permanent membrane to protect final finishes from moisture related damage for the life of the floor, subject to there being no structural movement nor failure of the concrete slab, no severe thermal cycling nor exposure to temperatures above 50°C.

## Technical Information

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

Temperature Resistance	Tolerant up to 50°C
Water Permeability	Nil – Karsten test (impermeable)
Compressive Strength	60 N/mm <sup>2</sup> (EN 13892-2)
Bond Strength	2.5 N/mm <sup>2</sup> (EN 13892-8)
Toxicity (when cured)	Taint free to sensitive foodstuffs.

## Speed of Cure

	10°C	20°C	30°C
Light traffic	24 hrs	16 hrs	12 hrs
Overcoat	2-3 days	2 days	2 days
Full cure	14 days	7 days	5 days

## Overlaying

Allow Flowcem to dry before overcoating, which normally takes 2 days and depends upon the ambient conditions and moisture content of the substrate.

When over-coating Flowcem with a moisture sensitive, impervious coating, check surface moisture content is 75% RH or less. At surface moisture contents up to 85% RH, Flowcem can be overlaid with Flowseal EPW (or Peran Primer W) before applying any such coatings.

## Important Notes

Flowcrete's products are guaranteed against defective materials and manufacture and are sold subject to its standard Terms and Conditions of Sale, copies of which can be obtained on request.

Any suggested practices or installation specifications for the composite floor or wall system (as opposed to individual product performance specifications) included in this communication (or any other) from Flowcrete UK Ltd constitute potential options only and do not constitute nor replace professional advice in such regard. Flowcrete UK Ltd recommends any customer seek independent advice from a qualified consultant prior to reaching any decision on design, installation or otherwise.