

### Flowcem



#### Description

Flowcem is a three-component, technically advanced self-smoothing, epoxy-cement composite. It is applied to function as a damp proof underlayment under subsequent flooring finishes.

#### Uses

As a breathable moisture vapour barrier to be overlaid with resin flooring finishes on substrates which do not have an effective damp proof membrane.

The use of Flowcem ensures the controlled dissipation of moisture vapour under intermittent rising water pressure, allowing for the subsequent application of impermeable resin finishes.

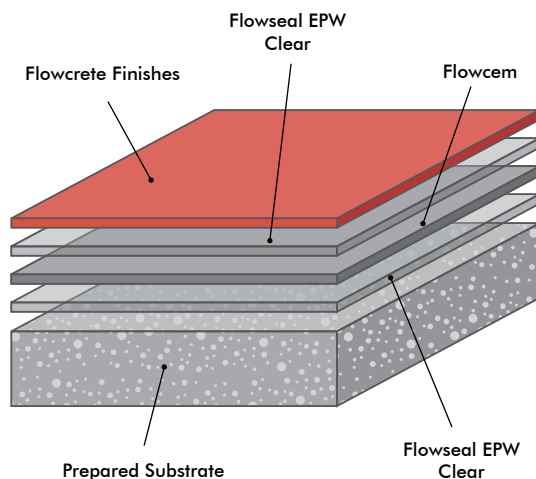
#### Benefits

- Excellent adhesion to concrete & screeds
- Tolerates up to 100% relative humidity in a concrete or sand-cement screed substrate
- Chemically and mechanically compatible with concrete forming a monolithic structure
- Reduces substrate undulation
- Easy to apply (self-smoothing)
- Low odour

#### Project References

Available on request.

#### System Design



## Model Specification

Product: Flowcem  
Thickness: 2.5mm  
Preparatory work and application in accordance with suppliers instructions.  
Manufacturer: Flowcrete Middle East FZCO  
Telephone : Customer Service +971 4 886 4728

## 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 free from continuous rising moisture with high hydrostatic pressure.

### Note:

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

## Products Included in this System

Flowseal EPW Clear  
Flowcem

Detailed application instructions are available upon request.

## Installation Service

The installation should be carried out by a Flowcrete approved applicator with a documented quality assurance scheme. Obtain details of our approved contractors by contacting our customer service team or enquiring via our website at [www.flowcrete.ae](http://www.flowcrete.ae)

## 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 the manufacture and application of the products by Flowcrete staff and fully trained and experienced contractors.

## Focus on the Floorzone

Flowcrete Middle East FZCO is a division of the Flowcrete Group, world 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 and corrosion protection systems... to name just a few. Our corporate objective is to satisfy your flooring needs.

## Technical Information

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

Thermal Resistance	Tolerant up to 60°C
Water Permeability	Nil – Karsten test (impermeable)
Compressive Strength	> 40 N/mm <sup>2</sup> (BS6319)
Bond Strength	Greater than cohesive strength of 25 N/mm <sup>2</sup> concrete. >1.5 MPa.

## Speed of Cure (per layer)

	10°C	20°C	30°C
Light Traffic	24 hrs	15 hrs	12 hrs
Full traffic	48 hrs	36 hrs	24 hrs
Full chemical cure	12 days	7 days	5 days

## Overlaying

Allow Flowcem to dry before over-coating, 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 5% (75% RH) or less.

## Important Note

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.

## Further Information

To ensure you are specifying a fit for purpose flooring for your project please consult our Technical Advisors on the number below or visit our website to register your interest in specifying one of the most durable floors on the market.