

## Flowchem VE GL (2–3 mm)

A hand or spray applied shrinkage compensated vinyl ester resin based glass fibre reinforced lining system for the protection of concrete and metal structures against sustained or intermittent exposure to heavy duty chemical, thermal or mechanical attack.



### UV Resistant:

Excellent resistance to deterioration from UV exposure over time.



### Temperature Resistant:

High thermal resistance, up to 165°C.



### Chemical Resistant:

Impressive resistance to aggressive chemicals and solvents.



### Fast Cure:

Walk on traffic in 12 hours, reducing downtime.



Dark Grey  
Close to RAL 7046



Light Grey  
Close to RAL 7035



Green  
Close to RAL 6002



Red  
Close to RAL 3009

The applied colours may differ from the examples shown.  
For a full colour chart and samples, contact your local Flowcrete office.



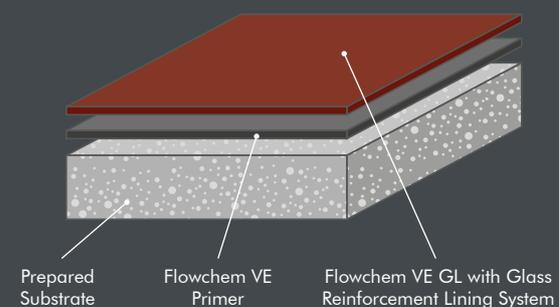
## Technical Profile\*

TEMPERATURE RESISTANCE	
ASTM 648.56	Tolerant up to 145°C
BARCOL HARDNESS	
ASTM D 2583	>50
E-MODULUS	
ASTM D 695	3.1 KN/mm <sup>2</sup>
VOLUME SHRINKAGE	
Rill 4 2.5.3.2.1	<0.004 %
BOND STRENGTH	
>4 N/mm <sup>2</sup> (substrate failure)	
COMPRESSIVE STRENGTH	
ASTM D 695	160 N/mm <sup>2</sup>
FLEXURAL STRENGTH	
ASTM D 790	125 N/mm <sup>2</sup>
TENSILE STRENGTH	
ASTM D 638	73 N/mm <sup>2</sup>
SLIP RESISTANCE**	
BS 7976-2	Dry >40 low slip potential
DENSITY	
1.01 Kg/l	
SPEED OF CURE***	
Light Traffic	20 °C 12 hrs
Full Traffic	24 hrs
Full Chemical Cure	72 hrs

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

\*\*The slipperiness of flooring materials can change significantly, due to the installation process, after short periods of use, due to inappropriate maintenance, longer-term wear and/or surface contaminants (wet or dry). Textured systems are recommended to meet slip resistance value requirements for wet conditions and/or surface contaminants (wet or dry). Please contact our Technical Department for further details and specifications.

\*\*\*The speed of cure can be controlled by varying the accelerator dosage level. The above times are based on the standard dosage level.



## Model Specification

System	Flowchem VE GL
Finish	Satin / Matte

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

## Products Included In This System

Primer	Flowchem VE Primer @ 0.35 kg/m <sup>2</sup>
Lining System	Flowchem VE GL Clear Resin with 450 g/m <sup>2</sup> chopped stand mat @ 1.2 kg/m <sup>2</sup> Flowchem VE GL Clear Resin with 450 g/m <sup>2</sup> chopped stand mat @ 1.2 kg/m <sup>2</sup> Flowchem VE GL Clear Resin with 30 g/m <sup>2</sup> surface tissue @ 0.1 kg/m <sup>2</sup>
Finish	Flowchem VE GL @ 0.7 kg/m <sup>2</sup> Flowchem VE GL @ 0.7 kg/m <sup>2</sup>

Note: Add Flowchem VE Topcoat Additive to the final topcoat only at 1.5% by weight of Resin.

The Flowchem VE topcoat resins normally give a glossy finish. When the Flowchem VE Topcoat Additive is used, the resultant finish is a satin matte.

NB: Specifications are written for each installation to meet the clients particular requirements.

## Substrate Requirements

Reinforced concrete substrates should be capable of producing 1.5 N/mm<sup>2</sup> "pull-off" values and, following preparation, be free from laitance, dust and other contamination. The substrate should be visibly dry with a moisture content not exceeding 5% by weight, or 75% RH as per BS8203, and free from rising damp and ground water

pressure. If no damp proof membrane is present, use one coat of Hydraseal DPM and one coat of Flowfresh Primer directly beneath the Flowchem VE system.

## Installation Service

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

## Aftercare, Cleaning & Maintenance

Clean floors 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.

## Note

No resin system is totally 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 very light colours but does not compromise the product's physical or chemical resistance characteristics. We have endeavoured to adopt colours within our standard range which minimise this change.

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.

System Datasheet written for Flowcrete UK Ltd. Please consult Technical Team in your own country region for specific details. [08/03/19, 01 UK]