

Flowchem VE GL (2 - 3 mm)



Description

A hand or spray applied shrinkage compensated vinyl ester resin based glass fibre reinforced lining system with outstanding chemical, thermal and mechanical resistance. Applied up to 3mm thick.

Uses

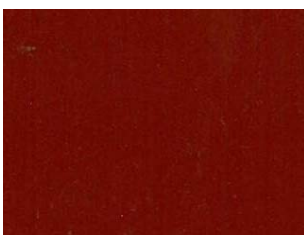
For protection of concrete and metal structures subject to continuous or occasional exposure to heavy duty chemical, thermal and mechanical attack.

Flowchem VE GL (Flex) is also available for exposure to liquid nitrogen environments.

Benefits

- Excellent thermal resistance, up to 165°C.
- Excellent chemical resistance.
- Fast curing – usually walk on within 12 hours.
- Hygienic – easy to clean.
- High abrasion resistance.
- UV Resistant.
- Each installation matched to clients specific requirements.

Standard colour chart



Red (close to RAL 3009)



Light Grey (close to RAL 7035)



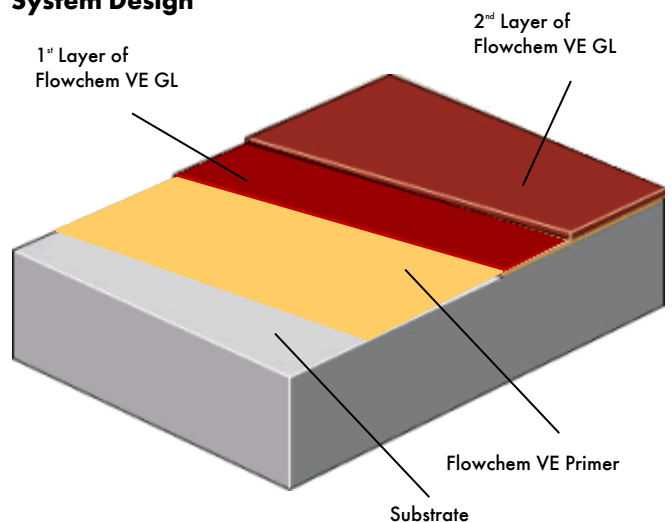
Green (close to RAL 6002)



Dark Grey (close to RAL 7046)

The applied colours may differ slightly from the examples shown above. Contact our customer services for a true colour sample.

System Design



Model Specification

Product: Flowchem VE GL

Finish: Satin matt

Thickness: _____ (2 - 3 mm)

Colour: _____

Preparatory work and application in accordance with suppliers instructions.

Supplier: Flowcrete UK Ltd

Telephone : Customer Service - +44 (0) 1270 753000

Substrate Requirements

Reinforced concrete substrates should be capable of producing 1.5 N/mm² "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 BS8204, 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.

Products Included in this System

Primer: Flowchem VE Primer @ 0.35 kg/m²

Finish: Flowchem VE GL @ 3 - 4 kg/m² (~3 mm thickness)

- depending on weight of the glass reinforcement used

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 matt.

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

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 web site

www.flowcrete.co.uk

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.

Technical Information

The figures that follow are typical properties achieved in laboratory tests at 20 °C and at 50% Relative Humidity. A range is given to cover results from the various systems.

Temperature Resistance Tolerant up to 165 °C

Slip Resistance Dry >40 low slip potential
Method described in BS 7976-2 (in accordance with HSE and UKSRG
(typical values for 4-S rubber slider) guidelines)

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 Advisors for further details and specifications.

Chemical Resistance Contact Technical Department

Barcol hardness > 50 (ASTM 2583)

E-Modulus 3.1 GPa (ASTM D-695)

Volume Shrinkage < 0.004 % Rill 4 2.5.3.2.1

Compressive Strength 160 MPa (ASTM D-695)

Flexural Strength 125 MPa (ASTM D-790)

Tensile Strength 73 MPa (ASTM D-638)

Adhesion > 4 MPa (Note: substrate failure)

Density 1.01

Speed of Cure

20 °C

Light traffic 12 hours

Full traffic 24 hours

Full chemical cure 72 hours

The speed of cure can be controlled to a large extent by varying the accelerator concentration.

Aftercare - Cleaning and Maintenance

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

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.