

Flowchem VE GL (2 – 3 mm)



Description

Flowchem VE GL is a hand or spray applied "shrink-free" 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.

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.

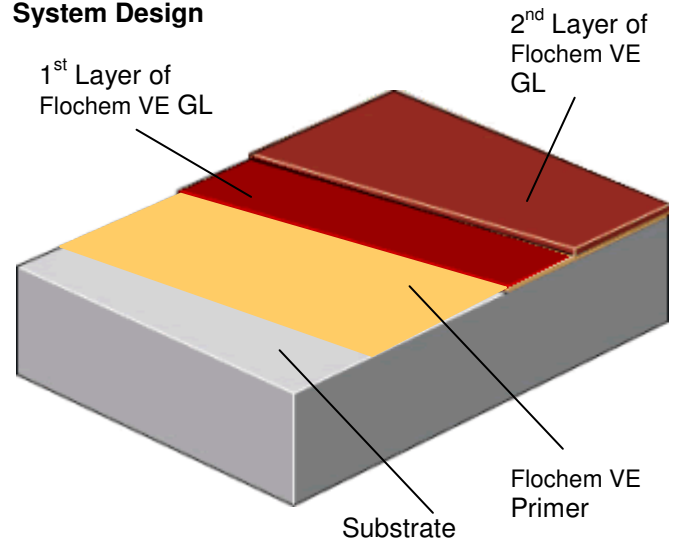
Project References

BP (Amoco) OSBL; Sidmar Steelworks; Henkel Ecolab and Borealis; I.C.I. Chemicals; Baxter Healthcare SA.

Colours

Mid Grey and Cream.

System Design



Model Specification

Product: Flochem VE GL
Finish: Gloss
Thickness: (2 - 3 mm)
Colour:
Manufacturer: Flowcrete India Pvt Ltd
Telephone: Customer Service - +91 44 4202 9831
Preparatory work and application in accordance with manufacturer's instructions.

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, Hydraseal DPM can be incorporated 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

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 applicator with a documented quality assurance scheme. Obtain details of our approved contractors by contacting our customer service team or enquiring via our web site at www.flowcrete.in.

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 India Pvt Ltd 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. 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 (typical values for 4-S rubber slider)
Method described in BS 7976-2
(in accordance with HSE and UKSRG 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 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.