

Flowchem VE ESD HD



Description

An electrostatic dissipating horizontal trowel applied low shrink vinyl ester resin based screed system with outstanding chemical and mechanical resistance.

Applied approx. 10 mm thick.

Uses

For protection of concrete floors and bunds against aggressive chemicals, solvents and thermal attack in medium to heavy duty areas.

Benefits

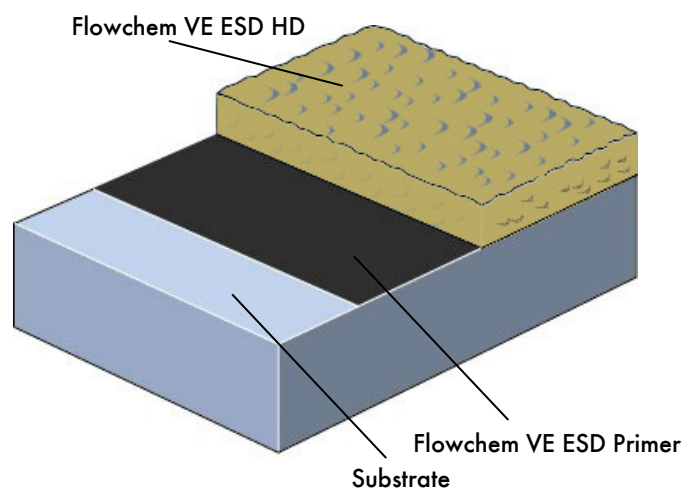
- Excellent thermal resistance, up to 185°C.
- Antistatic to EN IEC 61340.
- Resistant to thermal shock.
- Excellent chemical resistance.
- Excellent abrasion and impact resistance.
- Fast curing, minimum downtime.
- Low shrink.

Colours

Black.



System Design



Model Specification

Product: Flowchem VE ESD HD

Finish: Satin matt

Thickness: 10 mm

Colour: Black

Preparatory work and application strictly 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 ESD Primer @ 0.35 kg/m²

Topping: Flowchem VE ESD HD @ 20.0 kg/m²

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: Technical proposals 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.

Fire Resistance (EN13501-1)	B _{FL} - s1
Electrical Resistance (EN IEC 61340-5-1)	5 x 10 ⁴ - 1 x 10 ⁹ Ohms
Temperature Resistance	185 °C max. - ASTM 648.56
Slip Resistance Method described in BS 7976-2 (typical values for 4-S rubber slider)	Dry >40 low slip potential (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	> 40 (ASTM D 2583)
E-Modulus	24 GPa (ASTM D 695)
Volume Shrinkage	< 0.003 % Rill 4 2.5.3.2.1
Compressive Strength	120 MPa (ASTM D 695)
Flexural Strength	42 MPa (ASTM D 790)
Tensile Strength	23 MPa (ASTM D 638)
Adhesion	> 4 MPa (Note: substrate failure.)
Density	2.0 approx.
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 by varying the accelerator dosage level. The above times are based on the standard dosage level.

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.