

## Flowchem VE H-05



### Description

A horizontal trowelled applied vinyl ester resin based screed system with excellent chemical and mechanical resistance. Applied approx. 5mm thick.

### Uses

For protection of concrete walls, kerbs, equipment bases, trenches and rains against aggressive chemicals, solvents and thermal attack in medium duty areas.

### Benefits

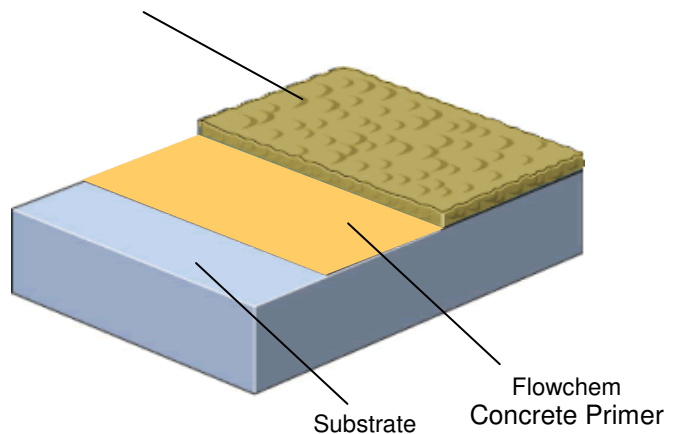
- Excellent thermal resistance, up to 160°C.
- Resistance to thermal shock.
- Excellent chemical resistance.
- Excellent abrasion and good impact resistance.
- Fast curing, minimum downtime.
- Non-shrink, imposes no stress.

### Project References

SAPPI, ABI, SAB, Woodlands Dairy & Westville Prison.

### System Design

Flowchem VE H-05



### Model Specification

Product: Flowchem VE H-05  
Finish: Medium profile  
Thickness: 5 mm  
Colour: Natural Quartz  
Manufacturer: Flowcrete SA (Pty) Ltd  
Telephone : Customer Service +27(0)31 461 3411

### Preparatory work and application in accordance with supplier's instructions.

#### Substrate Requirements

Reinforced concrete substrates should be capable of producing 1.5N/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 BS8204 and from rising damp and ground water pressure. If no damp proof membrane is present, Hydraseal can be incorporated directly beneath the Flowchem system.

#### Products Included in this System

Primer: Flowchem Concrete Primer  
Topping: Flowchem VE H-05  
Detailed application instructions are available upon request.

#### 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.flowcretesa.co.za](http://www.flowcretesa.co.za).

#### 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.

#### Focus on the Floor-zone

Flowcrete Group are 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, tank lining systems... to name just a few. Our objective is to satisfy your Floorzone needs.

### Technical Information

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

|                         |   |
|-------------------------|---|
| Temperature Resistance: | 160 °C max. – ASTM 648.56   |
| Chemical Resistance:    | See chart<br><a href="http://www.flowcretesa.co.za">www.flowcretesa.co.za</a> |
| 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<br>(Note: Substrate failure.)   |
| Density:                | 2.0 approx.   |

#### Speed of Cure

|                    |       |
|--------------------|-------|
|                    | 20°C  |
| Light traffic      | 12hrs |
| Full traffic       | 24hrs |
| Full chemical cure | 72hrs |

#### Aftercare - Cleaning and Maintenance

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

#### Life Expectancy

5-10 years: subject to correct maintenance regime.

#### 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.

#### 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.