

## Flowseal ESD UV (Coloured) (0.3mm)



### Description

A high-grade, electrostatic dissipating, hard-wearing polyurethane floor coating designed for maximum chemical resistance which is light-fast and flexible. Satin finish.

### Uses

Flowseal ESD UV (Coloured) is ideal where a seamless finish is required in such environments as:- electronics, pharmaceuticals, medical and veterinary practices, laboratories, chemical plants and all areas where a long-lasting, easily cleaned, high chemical resistance electrostatic dissipating finish is essential.

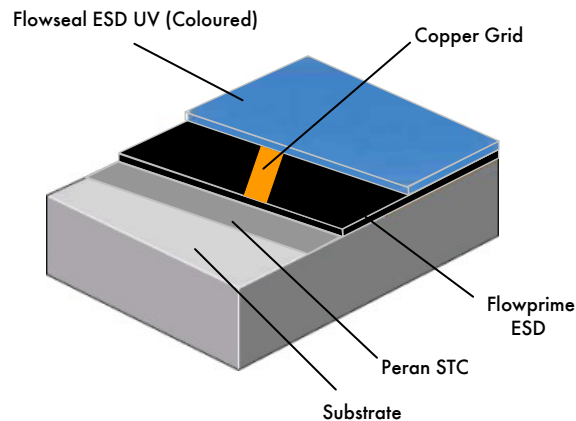
### Benefits

- Very high chemical resistance
- Enhanced resistance to UV light
- Easy to clean and sterilise anti-slip surface, minimal joints
- Resistant to thermal shock and hot water
- Easy to clean -including graffiti removal
- Seamless, hygienic - does not support fungal or bacterial growth
- Meets EN 61340 requirements

### Project References

Klinger Pharmaceutical, Killarney  
Pfizer, Cork.

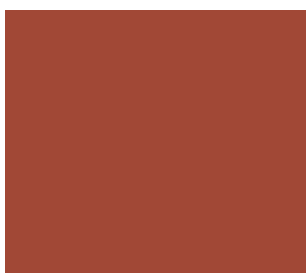
### System Design



### Standard colour chart



Dark Green



Tile Red 637



Light Blue (near to RAL 5012)



Signal Grey (near to RAL 7004)

The applied colours may differ slightly from the examples shown above. Contact our customer services for a true colour sample or a special colour match. Special corporate colours and designs can be produced to special order.

## Model Specification

Product: Flowseal ESD UV (Coloured)

Finish: Satin

Thickness: 0.3 mm (300µ)

Colour: \_\_\_\_\_

Preparatory work and application in accordance with suppliers instructions.

Supplier: Flowcrete UK Ltd

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

## Substrate Requirements

Concrete or screed substrate should be a minimum of 25N/mm<sup>2</sup>, free from laitance, dust and other contamination.

The substrate should be dry to 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 Flowseal ESD UV system.

## Products Included in this System

Primer: Flowprime or Peran LVS @ 0.3 kg/m<sup>2</sup>

Conductive Grid: ESD Copper Spray

approx. 40 linear metres per 400 ml aerosol

*Test conductivity before proceeding.*

ESD Primer: Flowprime ESD Conductive @ 0.06 - 0.08 kg/m<sup>2</sup>

*Test conductivity before proceeding.*

1<sup>st</sup> Coat: Flowseal ESD UV (Coloured) @ 0.17 kg/m<sup>2</sup>

2<sup>nd</sup> Coat: Flowseal ESD UV (Coloured) @ 0.17 kg/m<sup>2</sup>

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.flowcrete.co.uk .

## Conductive Grid

A network of 6 - 9 mm wide conductive copper should be spray applied (ESD Copper Spray). See the Application instructions for details.

## 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.

Intensively coloured products (e.g. hair colorants, medical disinfectants etc.) and plasticizer migration (e.g. from rubber tyres) can lead to irreversible discoloration in the surface. Please contact our Technical Services Department for further advice.

## Technical Information

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

Electrical Resistance 5 x 10<sup>4</sup> - 1 x 10<sup>9</sup> Ohms  
(EN IEC 61340-5-1)

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.

Thermal Resistance Tolerant to intermittent spillage up to 90 °C or sustained heat to 60 °C

Water Permeability Nil - Karsten test (impermeable)

Vapour Permeability ASTM E96:80 desiccant method  
Typically 2.38x10<sup>-3</sup> g/mm/h/m<sup>2</sup>/mm Hg  
Typically 50 Shore D

Surface Hardness (ASTM D2240-85)

Chemical Resistance

Consult Technical Dept.

Excellent resistance to sugars and most acids (organic and inorganic)

79 micrograms loss per 1000 cycles (1kg load using CS17 wheels)

Abrasion Resistance

ASTM D4060 (Taber Abrader)

Co-efficient of thermal expansion

7.5 x 10<sup>-5</sup> °C

extension rod dilatometry method, 15-30 °C

Decontamination

Bond Strength

BS 4247-1 Test A - Excellent

Greater than cohesive strength of 25 N/mm<sup>2</sup> concrete. > 1.5 MPa.

Complies with BS 8204-6/FerFA type 3.

## Speed of Cure

	10 °C	20 °C	30 °C
Light traffic	36 hrs	24 hrs	12 hrs
Full traffic	72 hrs	48 hrs	24 hrs
Full chemical cure	10 days	7 days	5 days

## Aftercare - Cleaning and Maintenance

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

To maintain aesthetics and the conductivity performance, ZeroStat Diamond Coat may be used in addition.

## 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.

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Flowcrete UK Ltd is an RPM company

Model Specification written for Flowcrete UK Ltd.

Please consult Technical Team in own country region for specific details.

www.flowcrete.co.uk