

Flowchem VE ESD HD



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



Temperature Resistant:

To +160°C (system thickness 5 mm);
to +185°C (system thickness 10 & 15 mm);
resistant for temperature changes



Electrostatic discharge properties:

Electrostatic properties in accordance with the PN-EN IEC 61340 standard for EX zones (5 mm system)



Resistant to Chemicals:

Resistant to concentrated acids and alkalis (almost the entire pH scale), in gaseous and liquid form



Wear Resistant:

Excellent abrasion and good impact resistance

Technical Profile¹

REACTION TO FIRE	
B _{fl} -s1	EN 13501-1
ELECTRIC RESISTANCE	
5 x 10 ⁴ – 1 x 10 ⁶ Ohm (5 mm system) 5 x 10 ⁴ – 1 x 10 ⁷ Ohm (10-15 mm system)	PN-EN IEC 61340-5-1
TEMPERATURE RESISTANCE	
+160°C for 5 mm system; +185°C for 10-15 mm system	ASTM 648.56
SLIP RESISTANCE ²	
Dry > 40	BS 7976-2
VOLUME SHRINKAGE	
< 0,003 %	RILL 4 2.5.3.2.1
BARCOL HARDNESS	
> 40	ASTM 2583
E-MODULUS	
24 GPa	ASTM D-695
COMPRESSIVE STRENGTH	
120 MPa	ASTM D-695
FLEXURAL STRENGTH	
42 MPa	ASTM D-790
TENSILE STRENGTH	
23 MPa	ASTM D-638
ADHESION	
> 4 MPa (Substrate failure)	
SPEED OF CURE ²	
Light Traffic	+20°C 12 h
Full Traffic	24 h
Full Chemical Cure	72 h



Black

The applied colours may differ from the examples shown.
For a full colour chart and samples, contact your local Flowcrete office.

¹ The figures in the table beside are typical properties achieved in laboratory tests – these results may vary depending on the conditions on the installation site.
² Cure times can be changed by altering the quantity of accelerator.

Model Specification

Model Specification	Flowchem VE ESD HD
Finish	Satin
Thickness	5–15 mm
Colour	Black
Producer:	Flowcrete Group Ltd
Supplier:	Flowcrete Polska Sp. z o.o.
Telephone:	+48 22 879 89 07

Installation Service

The installation should be carried out by a Flowcrete approved contractors with a documented quality assurance scheme. Obtain details of our approved contractors by contacting Flowcrete Polska or enquiring via our website at www.flowcrete.com.pl.

Products Included in this System

Primer:	Flowchem VE Primer; Peran Copperstrip
Conductive layer:	Flowchem VE ESD Primer
Top layer:	Flowchem VE ESD HD

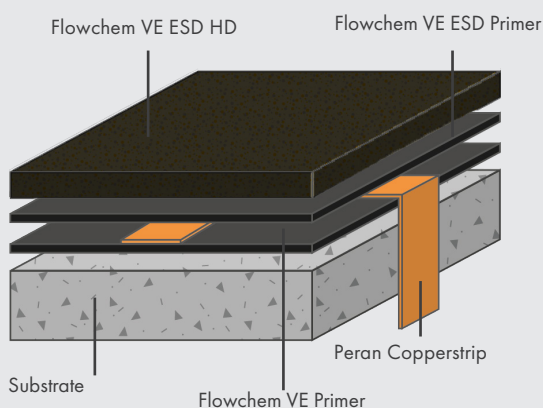
Aftercare – Cleaning and Maintenance

Posadzkę można zmywać, odkurzać, zmywać na mokro lub sprzątać przy użyciu maszyny czyszczącej wyposażonej w tarcze szczotkowe w połączeniu ze średnio alkalicznym detergentem.

Substrate Requirements

Concrete or screed substrate should be class min. C20/25, a minimum bond strength of 1,5 MPa (pull-off test), surface even, clean, free from laitance, dust and other contamination. All damages in the substrate should be repaired prior to applying the flooring. The substrate should be dry up to 75% RH as per BS 8204 (5% humidity measured by the Tramex method) and free from rising damp and ground water pressure. In case of higher humidity, one should use combination of Flowfresh Primer and Hydraseal DPM as primer. Details to be found in the *Flowcrete Resin Flooring Substrate Requirements*.

System Design



Environmental Considerations

The finished system is assessed as non-hazardous to health and the environment. The long service life and seamless, impermeable surface with perfect adhesion to the substrate reduce the need for repairs and maintenance.

Technical information, recommendations and instructions concerning the product use, storage and maintenance included in this System Data Sheet are based on Flowcrete Polska Sp. z o.o. (further related as „Flowcrete”) knowledge and experience, reflecting the best acknowledged way of using the material for a given moment. Taking into consideration other factors that are beyond the producer’s control, including differences in quality of substrates, tools and other complementary materials, weather conditions, proper installation and also cleaning and maintenance, Flowcrete cannot take responsibility in case of failure to conform with information and instructions included in this System Data Sheet or, respectively, written recommendations from authorized Flowcrete representatives. One should always conform with up-to-date norms and building principles, and also safety, hygiene and health protection rules according to the information included in Material Safety Data Sheets and also on the products packaging. This System Data Sheet replaces all previous versions. In order to receive up-to-date System Data Sheets contact Flowcrete Polska

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