

Product 02456010 5-comp. conductive PU coating, solvent-free, coloured

1 General Data

Fields of application

FLOORCRETE PU-TC ESD is recommended for use as an anti-static surface coating for industrial floors with high demands in terms of electrostatic discharge, especially in explosion proof areas and fire protection zones. It is normally used in 0.3 – 0.5 mm thickness as a topcoat over FLOORCRETE PU-MF ESD wear coat broadcast with Silicon carbide, SiC.

Product description

FLOORCRETE PU-TC ESD is a 5-component, high build polyurethane coating. It has excellent mechanical and chemical properties. It is resistant to organic acids, dilute mineral acids, vegetable and animal fats, petroleum oils and solvents. It is suitable for use in conditions of a wide temperature range between 0°C and +90°C. FLOORCRETE PU-TC ESD is not color stable when exposed to UV and weathering.

Characteristics

- Conductive
- Excellent chemical resistance
- High impact/abrasion resistance
- Self-smoothing
- Fast curing
- Seamless matt smooth finish
- Odorless
- Wide service temperatures - 0°C to 90°C
- Solvent free

FLOORCRETE systems

FLOORCRETE PU-TC ESD is the coating for the FLOORCRETE system:
FLOORCRETE **MF ESD** (anti-slip)

(A) Technical data

Liquid mixture (A+B)

1. Solids content	99 %
2. Density (25°C)	1.3 g/cm ³
3. Viscosity (25°C)	A+B: 500-1000 mPas
4. Packaging size (5-component)	4.075 kg (A+B+C+D) = 3.9kg Colour Paste = 0.175kg
5. Colour	Green oxide, oxide red, yellow oxide, sky blue, grey
6. Shelf life	9 months in closed original container
7. Storage	Dry at 10–30°C, avoid direct sunlight

(B) Technical data

Cured material

1. Adhesive strength (DIN ISO 4624)	> 1.5 N/mm ² (concrete failure)
2. Resistance to earth (DIN EN 61340-4-1)	≤ 10 ⁹ Ω

Care and maintenance

The lifespan & performance of your resin floor can be extended considerably by adopting a regular cleaning and care programme. We recommend the use of an alkaline based cleaning agent.

Technical support

For system build up possibilities and detailed information relating to the laying of FLOORCRETE products, please refer to the FLOORCRETE System Planner or contact Floorfinder Asia Sdn Bhd directly.

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e-mail: info@floorfinderasia.com

Manufacturer:

Floorfinder Asia Sdn. Bhd., No. 28, Lorong Sungai Puloh 1A/KU6, Jalan Sungai Puloh, Batu 5 3/4, Kapar, 42100 Klang, Selangor Darul Ehsan, Malaysia, tel: +603 3290 7644, email: info@floorfinderasia.com, www.floorfinderasia.com – A division of VIACOR VISION AG, SWITZERLAND

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2 Application method

Substrate preparation

FLOORCRETE PU-TC ESD is applied directly onto the cleaned FLOORCRETE PU-MF ESD wear coat, which is broadcast with SiC (within 24 and hours) as FLOORCRETE topping system without grinding the surface. If longer than 24 hours, a light grind is required. Furthermore, it could be applied on FLOORCRETE PU-VC skirtings and vertical applications.

Primer

No primer is required on existing FLOORCRETE PU-MF ESD broadcast wear coat.

Application

Before starting the application, the material temperature must be close to the site conditions.

Dispense the colour paste into mixture of component A and D. Mix to disperse the colour paste (1 minute) until homogeneous using a helical mixer at a speed of 350-600 rpm. Add component B and mix (0.5 minutes) until homogeneous.

Add component C gradually to the mix with the mixer running. Move the mixer around from side to side and top to bottom and scrap the sides of the mixing vessel to ensure thorough mixing, until homogeneous (1 minutes).

Transfer the mixture to another clean container and mix for 1 minute.

The mixed material is poured onto the surface and spread over the entire area using a hard or soft rubber squeegee. Then it is rolled with a short-piled microfiber roller (e. g. Multitool microfiber 6 or 8 mm) in one direction. The formation of puddles should be avoided. As finish we recommend to roll in one direction with the microfiber roller. The drying time for seams of the wet sealer is approx. 7 - 9 minutes (at 20°C and 50% rel. humidity – higher temperatures and higher humidity will shorten the drying time).

Ensure to maintain continuity of wet material between pours.

Subsets cannot be mixed because only complete sacks of filler may be processed.

For cleaning of tools and other contaminations use FLOORFINDER SO-X10 tool cleaner.

(C) Technical data

Liquid mixture (A+B)

1.	Mixing ratio, A: B: C: D: CP	1: 1: 1.1: 0.8: 0.175 by weight (kg)
2.	Working time (25°C)	approx. 7-9 minutes
3.	Application temperature	10 – 30°C (min. 3°C above dew point)
4.	Material consumption	0.5 – 1.0 kg/m ²
5.	Overcoating (25°C)	within 12 - 24hours
6.	Cure time to withstand:	
	Foot traffic	after 12 – 20 hours
	Heavy traffic	after 2 days
	Exposure to chemical	after 7 days

Note for conductive systems:

To check the conductivity values are the assessment report "Conductive coatings for industrial floors" of the German Construction Chemicals Association recommended.

Note: Prior to application of the conductive coating FLOORCRETE PU-TC ESD the conductive layer FLOORFINDER EP-E480 and FLOORCRETE PU-MF ESD broadcast must be measured.

Area coating system	Number of measurements
< 10 m ²	1 measurement / m ²
10 – 100 m ²	10 – 20 measurements
> 100 m ²	10 measurements / 100 m ²

Distance between the measurement points at least 50 cm. If the required measurement value is not reached, further measurements must be carried out within a radius of 50 cm.

Overcoating

Overcoating should be carried out within 24 hours after application of FLOORCRETE PU-MF ESD broadcast with SiC.

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3 Further information

CE-Mark



CE-Mark according to EN 13813

EN 13813: 2003-01, Screed material and floor screeds - Screed materials - Properties and requirements is the basis for requirements for floor screeds used in indoor flooring constructions. Resin coatings and sealer are also subject to this norm.

Details see CE-conformity mark and conformity declaration.

Warnings and precautions

Information relating to the safe handling of this product can be found in the Material Safety Data Sheet. Local regulations concerning the safe handling of epoxy resin-based coating materials must be observed.

Suitable protective clothing including suitable eye protection must be worn.

Disclaimer

All information in this technical data sheet is based on our current knowledge and experience. This does not release the applicator from performing their own tests as many application factors, beyond our control, affect the application of our product. No guarantee of characteristics or suitability for a special purpose can be derived from this information. All present data, descriptions, drawings, photos, ratios, weights etc. are subject to change without prior notice and do not represent contracted characteristics of the product.

Due to different materials, sub-bases and working conditions, no guarantee of an application result or any liability claims can be derived from these details or from an unwritten technical advice except for liability claims based on:

-damage to life, body or health resulting from a negligent violation of obligations or a deliberate or negligent violation of obligation of a legal representative or assistant and

-if we are charged with intention or gross negligence.

The user has to test the products for their intended use. The user is responsible for following existing laws and orders and for observing third party trade mark rights.

As all Floorfinder data sheets are updated on a regular basis it is the user's responsibility to obtain the most recent issue (see www.floorfinderasia.com).

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