Product 01450000 2-comp. EP topping, self-smoothing, solvent-free, colored

1 General Data

Fields of application

FLOORFINDER EP-C500 recommended for use as a self-smoothing floor topping (0.7 – 3 mm) system for protection of concrete floor surface subject to extreme high wearing, chemical attacks and where maintenance of cleanliness and smooth floor finish is important.
It is commonly used in pharmaceutical manufacturing plants, electronic assembly plants, hospitals, warehouse / logistics centres, laboratories, work-shops and aircraft hangars.

Product description

FLOORFINDER EP-C500 is a solvent-free 2-component self-smoothing epoxy flooring system which is impervious and designed to provide an easy to clean, hygienic, seamless floor with high mechanical strength and chemical resistance.
In general, epoxy coatings are not colour stable if exposed to UV light or under influence of weathering. We recommend to over-coat with a colour stable sealer.

Characteristics

- Self-smoothing
- Smooth glossy finish
- Chemical / oil resistant
- Abrasion/ impact resistant
- Low / no odour
- Solvent free
- Available in a variety of colours

FLOORFINDER systems

FLOORFINDER EP-C500 is used as a topping for the following FLOORFINDER systems:
FLOORFINDER ***UNIVERSAL***
FLOORFINDER ***UNIVERSAL ESD***

(A) Technical data	
Liquid mixture (A+B)	
1. Solids content	99 %
2. Density (25°C)	1.48 g/cm^3
3. Viscosity (28°C)	2000–4000 mPas
4. Packaging size	20 kg (16 kg A + 4 kg B)
5. Colors	FLOORFINDER standard, other colors on request
6. Shelf life	12 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)

Care and maintenance

The lifespan and 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 FLOORFINDER products, please refer to the FLOORFINDER System Planner or contact Floorfinder Asia Sdn Bhd directly.
Tel: +603 3290 7644
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

The substrate must be firm, clean, dry and have a tensile strength of 1.5 N/mm² minimum.

Wet areas shall be dry with a blow torch. The moisture content in the substrate must not exceed 4 CM %.

New concrete must be allowed to be cured for a minimum of 28 days.

Repair imperfections (holes and cracks) with an epoxy patching compound such as FLOORFINDER EP-T703 where necessary.

Remove surface laitance, contaminants, coating, curing compound and all weak and loose materials.

Prepare substrate by Captive Shot Blasting or Diamond Grinding to provide the appropriate surface profile for optimum mechanical keying.

(C) Technical data		
Liquid mixture (A+B)		
1.	Mixing ratio A: B	4:1 by weight (kg) (100:25)
2.	Working time (25°C)	approx. 20-25 minutes
3.	Application temperature:	10 – 30°C (min. 3° above dew point)
4.	Material consumption	1.0 – 1.48 kg/m²
5.	Overcoating (25°C)	within 24hours
6.	Cure time to withstand: Foot traffic (25 °C) Heavy Traffic (25°C) Exposure to chemicals (25°C)	 after 18 - 24 hours after 3 days after 7days

Primer

Apply an epoxy primer such as FLOORFINDER EP-P210 by roller to the prepared surface. If the surface is porous, a second coat of primer may be necessary.

To improve inter-layer adhesion, sprinkle FLOORFINDER QS 0.2-0.5 mm quartz sand lightly (approx. 800 g/m²) while the primer is still wet.

Depending on the intended evenness, FLOORFINDER EP-C500 is applied directly onto the primed surface or over an EP-scratch coat (e. g. FLOORFINDER EP-T703). FLOORFINDER EP-C500 must be applied no later than 24 hours after the previous layer has been laid.

Application

Before starting the application, the material temperature must be close to site conditions. Ensure floor surface is even to prevent flow.

Mix Component A for 2-3 minutes.

Empty contents of component B (Hardener) into component A (Base Resin). Mix with a suitable mixer at a speed of 350 rpm to avoid incorporating excessive air into the mix. Mix for 2-3 minutes.

Transfer the mixture into another clean container and mix for 1-2 minute.

We recommend using components with the same batch number.

Pour the wet mix on the floor. Spread the mixed product onto the surface with a squeegee or notched trowel. Follow by spike roller to remove entrapped air.

FLOORFINDER EP-C500 can be filled, depending on the thickness, the filler and the material and ambient temperature, with oven dried quartz sand (e.g. FLOORFINDER QNV0 in a mixing ratio 1: 0.05 – 1: 0.2, the material properties should be tested depending on applied thickness and ambient conditions (temperature). Recommendation for adding filler at:

10-15 °C: No filling
15- 20°C: 5% filling of FLOORFINDER QNV 0 for 1mm
10% filing of FLOORFINDER QNV 0 for 2mm
20-30°C: 10% filling of FLOORFINDER QNV 0 for 1mm
20% filling of FLOORFINDER QNV 0 for 2mm

To achieve uniform layer thickness, the tooth rows of the notched trowel must be regularly replaced. Ensure to maintain continuity of wet material between pours.

Allow to cure for 24 hours before exposing to foot traffic.

If a non-slip or a flake decorative finish is required, broadcast the desired quartz sand and flakes while the topping is still wet. For cleaning of tools and other contaminations use FLOORFINDER SO-X10 cleaner.

Over-coating

The second coat can be applied within 24 hrs without grinding. If longer, the surface must be grinded before overcoating.

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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 characeristics 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 characteritics of the product.
Due to different materials, sub-bases and working conditions, no guaratee 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 vialation 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 trademark rights.

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

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