

Product 01300500 2-comp. EP coating, self-smoothing, solvent-free, highly fillable, colored

Fields of application

FLOORFINDER EP-C3005^{FF} is used as a high fillable, self-levelling coating for industrial floors with high demands in mechanical and hygienic terms. Areas of application are found in all branches e.g. high-bay warehouses, stores, power stations, laboratories, production sites etc. In addition FLOORFINDER EP-C3005^{FF} is used as wear coat for with quartz sand broadcasted anti-skid coatings.

Product description

FLOORFINDER EP-C3005^{FF} is a pigmented, high fillable (depending on layer thickness and filler up to 1:1.5), solvent-free 2-component coating compound of high-grade epoxy resin. FLOORFINDER EP-C3005^{FF} produces filled with oven dried quartz sand fillers, tough, joint-free, non-porous floor coatings which are easy to clean and exhibit a good level of resistance to fuels and lubricants, most solvents and many chemicals. Exposure to chemicals may lead to optical discoloration that will not affect the technical usability of the flooring (see chemical resistance list). In general, epoxy resins are not colour stable if exposed to UV light or under influence of weathering. We recommend to apply a colour stable sealer.

Characteristics

- Solvent free (total solid)
- Highly fillable (1:1.5 – 1.7) with oven dried quartz sand
- Self-levelling, joint free
- Mechanical and chemical resistant
- Fast hardness development
- Low / no odour
- Available in a variety of colours

FLOORFINDER systems

FLOORFINDER EP-C3005^{FF} is used as a topping for the following FLOORFINDER systems:

- FLOORFINDER **UNIVERSAL^{FF}**
- FLOORFINDER **UNIVERSAL SR^{FF}**

(A) Technical data

Liquid mixture (A+B)

1. Solids content	99 %
2. Density (25°C) unfilled filled	1.16 g/cm ³ 1.74 g/cm ³
3. Viscosity (25°C) unfilled filled	900-1200 mPas 2000–3000 mPas
4. Packaging size	1:1.5 8 kg (5.7 kg A + 2.3 kg B) + 12 kg QNV0
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)
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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.

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Manufacturer:

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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 dried with a blow torch. The moisture content in the substrate must not exceed 4 CM %. New concrete must be allowed to cure for a minimum of 28 days. Repair imperfections (holes and cracks) with an epoxy patching compound such as FLOORFINDER EP-T703^{FF} 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.

Depending to the intended evenness FLOORFINDER EP-C3005^{FF} is applied directly onto the primer or an EP-levelling layer. We recommend to broadcast this layer just defined with QS. The top coat FLOORFINDER EP-C3005^{FF} should be applied within the recoating interval of the previous layer.

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 minutes. Transfer the mixture into another clean container and mix for 1 minute. We recommend to use components with the same batch number.

FLOORFINDER EP-C3005^{FF} can be filled, depending on the layer thickness, the filler and the material and ambient temperature, with oven dried quartz sand (e.g. FLOORFINDER QNV0^{FF} in a mixing ratio 1:1 – 1:1.5, the material properties should be tested depending on applied thickness and ambient conditions (temperature). Recommendation for adding filler at 20°C:
Filler FLOORFINDER QNV0^{FF} approx. 1:1 – 1:1.5

(C) Technical data	
Liquid mixture (A+B)	
1. Mixing ratio, A: B	5.7: 2.3 by weight (kg) (100: 40.4)
2. Working time (25°C)	approx. 20-25 minutes
3. Application temperature:	10 – 30°C (min. 3° above dew point)
4. Material consumption Mix of A+B+C on: a) smooth surface (filled) b) anti-skid with QS broadcast	1.7 – 2.1 kg/m ² 0.8 – 1.5 kg/m ²
5. Overcoating (25°C)	within 16 - 24hours
6. Cure time to withstand: Heavy Traffic (25°C) Exposure to chemicals (25°C)	after 7 days after 28 days

FLOORFINDER EP-C3005^{FF} is poured onto the surface and spread over the entire area using a serrated spatula (e. g. Polyplan tooth size no. 25 - 48 or Multitool S5 – S3). To achieve uniform layer thicknesses, the tooth rows of the spatula must be regularly replaced. The fluid coating can be rolled with a spiked roller, as required. The operative wears spiked shoes to walk on the still wet coating.

When processing an anti-skid system, oven dried quartz sand is broadcasted in the fresh material or in self-levelling layers decorative colour flakes can be spread in within the processing time.

We recommend for high filling grades to apply the self-levelling coating just on defined broadcasted surfaces and to deaerate the fresh coating with a spike roller.

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.

Note: Depending on the used quartz sand, filling grad and colour of the quartz sand it may lead to changes in the original colour tone of the coating material.

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

Over-coating

The second coat can be applied within 24 hrs without grinding. If longer, the surface has to be grinded before over-coating.

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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 users responsibility to obtain the most recent issue (see www.floorfinder.com.my).

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