

Product 01464000 2-comp. EP coating, conductive, solvent free, coloured, gloss

1 General Data

Fields of application

FLOORFINDER EP-S640 AS^{FF} is designed for use as a conductive, coloured sealer for rolled seal with slight traffic. It is recommended for use in situations subject to lightly loaded industrial areas, warehouses, pedestrian areas and technical rooms.

Product description

FLOORFINDER EP-S640 AS^{FF} is a coloured, gloss, conductive, two-component, solvent free epoxy coating. It provides a hard wearing and impervious surface that is easily cleaned and resistant to fuels and lubricants as well as most solvents and many chemicals.

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.

Light colours can show shades or slight structures at the surface because of the included conductive fibres even though application is done properly. This is system immanent and does not have a negative impact on product properties. In case of doubt, make a test area for better judgement.

Characteristics

- Highly conductive
- Excellent chemical resistant
- Good adhesion
- Low / no odour
- Solvent free

FLOORFINDER systems

FLOORFINDER EP-S640 AS^{FF} is used as top coat for the FLOORFINDER system:

FLOORFINDER **PROTECTIVE conductive^{FF}**

(A) Technical data	
Liquid mixture (A+B)	
1. Density (25°C)	1.45 g/cm ³
2. Viscosity (25°C)	2000 - 3000 mPas
3. Packaging size	20 kg (16 kg A + 4 kg B)
4. Colours	FLOORFINDER standard
5. Shelf life	12 months in closed original container
6. Storage	Dry and frost-free 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. Conductivity (DIN EN 1081) (DIN EN 61340-4-1)	≤ 10 ⁶ Ω (Rg) ≤ 10 ⁹ Ω (Rg)
3. Abrasion resistance (DIN EN ISO 5470-1)	< 40mg/1000 CYCLES (Taber CS 10 wheel)

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 FLOORFINDER products, please refer to the FLOORFINDER System Planner or contact Floorfinder Asia Sdn. Bhd. directly.

Tel: +603 3290 7644

e-mail: info@floorfinder.com.my

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2 Application method

Substrate preparation

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

Concrete substrate should have no ponded water. The moisture content in the substrate is not relevant.

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 interlocking. Substrate preparation by shot blasting needs an additional scratch coat or levelling layer.

FLOORFINDER EP-S640 AS^{FF} must be applied on a conductive layer as FLOORFINDER EP-E480 AS^{FF}.

Application

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

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 -500 rpm to avoid incorporating excessive air into the mixture.

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

Spread the mixed product onto the surface with a squeegee or trowel and back roll with a short nap roller in one direction to achieved the desired conductivity.

It is not allowed to apply a second coat on top of FLOORFINDER EP-S640 AS^{FF} as the conductivity gets lost.

The consumption must be controlled to achieve the desired conductivity.

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

(C) Technical data

Liquid mixture (A+B)

1. Mixing ratio A : B	16 : 4 by weight (kg) (100 : 25)
4. Working time	approx. 25 min. (25°C) approx. 20 min. (30°C)
5. Application temperature:	10 – 30°C (min. 3°C above dew point)
6. Material consumption	200 g/m ² – 370 g/m ²
7. Following coating (25°C)	within 24 hours
8. Cure time to withstand: Foot traffic (25°C) Full mechanical load (25°C) Full chemical load (25°C)	after 16 - 24 hours after 3 days 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 FLOORFINDER EP-S640 AS^{FF} the conductive layer FLOORFINDER EP-E480^{FF} 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

Please ask our technical support.

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@floorfinder.com.my - www.floorfinder.com.my – A division of VIACOR VISION AG, SWITZERLAND

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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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