

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

1 General Data

Fields of application

FLOORFINDER EP-S644 AS is designed for use as a conductive, coloured sealer for rolled seal coat with slight traffic. It is recommended for use in situations subject to lightly loaded industrial areas, warehouses, pedestrian areas and technical rooms. FLOORFINDER EP-S644 AS is used as seal coat or topcoat for slip resistant broadcast system. FLOORFINDER EP-S644AS is suitable for use in clean-rooms fulfilling the specification of air cleanliness ISO CLASS 3-9 according to ISO 14644-1:2016.

Product description

FLOORFINDER EP-S644 AS 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 filler even though application is done properly. This is system immanent and does not have a negative impact on product properties. In case of doubt, a trial application area is recommended to verify suitability and performance prior to full application.

Characteristics

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

FLOORFINDER systems

FLOORFINDER EP-S644 AS is used as sealcoat or topcoat (smooth and anti-slip) for the FLOORFINDER system: FLOORFINDER **PROTECTIVE conductive**

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.

(A) Technical data	
Liquid mixture (A+B)	
1. Density (25°C)	1.37 g/cm ³
2. Viscosity (25°C)	2000 - 3000 mPas
3. Packaging size	21.6 kg (16 kg A + 5.6 kg B) (15 kg A + 5.6 kg B + 1kg CP) 230kg A colorless + 190 kg B (upon request)
4. Colours	FLOORFINDER standard color
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)	< 30mg/1000 CYCLES (Taber CS 10 wheel)
4. Shore hardness (DIN EN ISO 868)	Approximately Sh D78

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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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 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 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-S644 AS must be applied on a conductive layer as FLOORFINDER EP-E480 AS (for a ESD reading to be conductive range).

Application

Before starting the application, the material temperature must be close to site conditions. Mix component A for 2-3 minutes.

Neutral Base

Empty contents of component CP (color paste) into component A (Base Resin). Mix with a suitable mixer at a speed of 350 -500 rpm for 2 min to avoid incorporating excessive air into the mixture. Followed by Comp B into mixture and mixed for 1-2 minutes. Transfer the mixture into another clean container and mix for 1-2 minutes.

Color Base

Empty contents of component B (Hardener) into component A (Base Resin). Mix with a suitable mixer at a speed of 350 -500 rpm for 2 min to avoid incorporating excessive air into the mixture. Transfer the mixture into another clean container and mix for 1-2 minutes.

Apply the mixed product onto the surface using a squeegee or trowel. Back-roll the material in one direction with a **long-nap roller (12 mm pile)** to achieve the desired conductivity. A **second coat** may be applied on top of FLOORFINDER EP-S644 AS if required. Minimum consumption must be **0.4 kg/m²** to ensure good coverage when applied as a single coat. For light-tone colors, a minimum of two coats is recommended. Actual coverage depends on the floor condition.

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

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(C) Technical data

Liquid mixture (A+B)

1. Mixing ratio A: B	16: 5.6 by weight (kg) (100: 35)
5. Working time	Approx. 25 min. (25°C) approx. 20 min. (30°C)
6. Application temperature:	10 – 30°C (min. 3°C above dew point)
7. Material consumption	400– 800 g/m ² (smooth) 400– 800 g/m ² (anti-slip)
8. Following coating (25°C)	within 24 hours
9. Cure time to withstand:	
Foot traffic (25°C)	after 16 - 24 hours
Full mechanical load (25°C)	after 3 days
Full chemical load (25°C)	after 7 days

Anti-slip

FLOORFINDER QCF 0 or QCF 1, or QCF 2 may be sprinkled onto the wet coating and lightly back rolled to achieve a textured anti-slip finish. The selected grade and consumption rate of QCF will determine the final surface profile and slip resistance level. Larger particle sizes and higher loading will produce a more pronounced texture. Different grades and loading levels will result in varying surface roughness and appearance.

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-S644 AS the conductive layer FLOORFINDER EP-E480 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 is possible. Please contact our technical support or refer to our Application Guideline.

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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 trademark 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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