

Product 01304400 2-C EP coating for FLOORFINDER ESD, conductive, colour, fast curing

1 General Data

Fields of application

FLOORFINDER EP-C544 AS (S) is a conductive, anti-static coating for use in industrial flooring where there is a high requirement for the dissipation of electrostatic charges in accordance with the ESD standard (DIN EN 61340-5-1) as well as sufficient protection from touch voltage. Areas of application include clean rooms, electronic production areas, microelectronic assembly rooms, computer chip manufacturing, measuring instrument manufacturing, electronic test laboratories and other areas where ESD standards are required.

Product description

FLOORFINDER EP-C544 AS (S) is a pigmented, ready-to-use, sol-vent-free (total solid), 2-component coating compound of high-grade epoxy resin. FLOORFINDER EP-C544 AS(S) will be applied on the conductive layer FLOORFINDER EP- E480 to obtain a tough, electrically conductive coating according to the ESD standards DIN EN 61340-4-1, -4-5 and -5-1.

Coating systems with FLOORFINDER EP-C544 AS (S) are easy to clean and exhibit a good level of resistance to fuels and lubricants, most solvents, and many other 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 when they are exposed to UV light or under the influence of weathering.

Properties

- Conductive accord. EN 61340-5-1/4-1/4-5
- Self-levelling, seamless
- Mechanical and chemical resistant

FLOORFINDER systems

FLOORFINDER EP-C544 AS (S) is used as coating for the FLOORFINDER system:

FLOORFINDER **UNIVERSAL ESD**

Care and maintenance

For the first two weeks just clean the floor with a dry dust mop, in the following two weeks just with a matt damp mop. For a long-term preservation of the properties of resin floors, we recommend regular cleaning and care program. For further details see our FLOORFINDER care and maintenance guide. Before first use we recommend to perform a basic cleaning with initial care for conductive floorings.

Distributor:

Goodspeed America Inc., 24624 Interstate 45 North, Suite 200 • Spring, Texas 77386, U.S.A.,
email: bstorey@goodspeed-america.com, www.goodspeed-america.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

(A) Technical data	
1. Solids content	>99 %
2. Density (20°C)	1.4 g/cm ³
3. Viscosity (20°C)	1800 – 2500 mPas
4. Packaging size	25 kg (21 kg A + 5 kg B)
5. Colours	FLOORFINDER standard (Not available in white tone)
6. Shelf life (20 °C)	12 months in closed, original container
7. Storage	Dry at 10 – 30°C, avoid direct sunlight

(B) Technical data

Cured material

1. Flexural strength (DIN EN 196)	40 N/mm ²
2. Compressive strength (DIN EN 196)	70 N/mm ²
3. Adhesive strength (DIN EN ISO 4624)	> 2.5 N/mm ²
4. Abrasion resistance (DIN EN ISO 5470-1)	60mg / 1000 cycles
5. Shore-D-hardness (DIN EN ISO 868)	79 (7 days / 23°C)
6. Resistance to earth* (DIN EN 61340-4-1)	< 10 ⁹ Ω (23°C/50%rel.hum.)
7. Body voltage * (DIN EN 61340-4-5)	< 100 V (23°C/50%rel. hum.)
8. Resistance Footwear/Person/Floor (DIN EN 61340-4-5)	< 3.5 x 10 ⁷ Ω (23°C/50%rel. hum.)

* The surface must regularly be checked for its ESD properties. The review is carried out according to a progress report "Conductive Coatings for industrial floors" of the German Construction Chemicals e. V. If the RE <3.5 x 10⁷ Ω is higher, but the body voltage is <100 V, the functionality of the conductivity meets according to DIN EN 61340-5-1.

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

FLOORFINDER EP-C544AS (S) Technical Data Sheet

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2 Application method

Please refer also to our general application guideline.
No handling of silicon containing substances or other products interfering with the reaction in the application area before and during application until the curing of the liquid resin.

Substrate preparation

The substrate must be clean and free from dust and loose particles. All traces of contaminants such as oils, fats, greases, paint residues, chemicals, algae and laitance should be removed.
FLOORFINDER EP-C544 AS (S) is poured onto the conductive layer FLOORFINDER EP-E480 (the conductivity of the conductive layer must be checked before*). FLOORFINDER EP-C544 AS(S) must be applied no later than 24 hours after the previous layer has been applied.

Application

The product is delivered in ready-to-use 2-component containers in the exact mixing ratio. The A-component must be stirred for at least 2-3 minutes. Then the entire content of the B-component is emptied into the A-component container and the two components are mixed until homogeneous using a suitable electric stirrer (for at least 2–3 minutes). The inclusion of air in the mixing process is to be avoided. The mixture is poured into another container and briefly stirred again. We recommend the application by equal batch numbers. It should be poured into a different container and stirred again briefly.
FLOORFINDER EP-C544 AS (S) is poured onto the surface and spread over the entire area using a serrated spatula (tooth size no. 25) (layer thickness control). The fluid coating must be rolled with a spiked roller, as required. The operator wears spiked shoes to walk on the wet coating.

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

Overcoating

It is not necessary to abrade the surface if the following coat is applied within 24 h. After 24 h, the application can only take place after a careful grinding of the surface.

(C) Technical data		
Liquid mixture (A+B)		
1. Mixing ratio: A : B		100 : 23.6 (by weight)
2. Working time	At 10°C At 15°C At 20°C	25 – 27min 19 – 20min. 15 – 16min.
3. Application temperature		10 – 20°C (mind. 3 K above dew-point)
4. Material consumption (Conductive Topping)		1.4 – 2.8 kg/m ²
5. Ready for foot traffic (20°C)		after 24 hours
6. Following coating (20°C)		within 16 – 24 hours
7. Fully capable of withstanding stress		
	mechanical (20°C) chemical (20°C)	after 7 days after 28 days
8. Fully cured (earliest water stress):		at + 23°C after 7 days.
Longer duration of water loads or longer dammed-up water should be avoided since it may lead to white surface discoloration (not applicable to wet loads that are required for daily cleaning maintenance).		

***Note for conductive systems:**

To check the conductivity values the guideline acc. progress report "Conductive Coatings for industrial floors" German Construction Chemicals e. V. is recommended. Note: Prior to application of the dissipative floor coating FLOORFINDER EP-C544AS (S) the conductive layer FLOORFINDER EP- E480 has to 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 min. 50 cm.

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3 Further information

CE-Mark



CE Mark according to EN 13813

EN 13813 "Screed material and floor screeds – properties and requirements" specifies requirements for screed material for use in floor construction internally. Resin flooring and sealer coats are also covered by this standard. For details see CE mark and Declaration of Conformity.

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 must 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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