

Product 01421000 2-comp. EP primer for substrates with high moisture content, solvent-free, fast curing

1 General Data

Fields of application

FLOORFINDER EP-P210(S)^{FF} is used as fast curing primer to improve the concrete surfaces for optimum adhesion of industrial flooring systems. It can also be used as a moisture barrier for concrete substrate with residual moisture content up to 6 CM%.

It can be used on green concrete (7 days old) provided the concrete is produced using stringent water-cement ratio of 0.48 and finished with a bull float finish

Product description

FLOORFINDER EP-P210(S)^{FF} is a filled, solvent free, two-component epoxy primer with whitish appearance.

Characteristics

- Fast curing
- Excellent adhesion
- High build
- Moisture tolerant up to 6 CM%
- Compatible to newly cured concrete (7 days old)
- Low / no odour
- Solvent Free

FLOORFINDER systems

FLOORFINDER EP-P210(S)^{FF} is used as primer for substrates with high moisture content up to 6 CM% for all FLOORFINDER EP- and PUR-Systems.

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

(A) Technical data

Liquid mixture (A+B)

1. Solids content	99%
2. Density (25°C)	1.41 g/cm ³
3. Viscosity (25°C)	1500–2500 mPas
4. Packaging size	25 kg (19 kg A + 6 kg B)
5. Appearance	Whitish
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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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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2 Application method

Substrate preparation

The substrate must be firm, clean, dry and have a pull-off 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 6 CM %. There should be no water in the pores.

New concrete must be allowed to cure for a minimum of 28 days. However, for bull float finish concrete with 0.48 water : cement ratio, 7 days cure is adequate.

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.

No grinding or shot-blasting is necessary for bull float finish concrete with 0.48 water : cement ratio.

Application

Before starting the application, the material temperature must be close to the 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 mix. Mix for 2-3 minutes.

Transfer the mixture into another clean container and mix for 1-2 minute. Allow a pre-reaction time of 5 minutes.

To cover vertical surfaces, add 1 to 3 % of FLOORFINDER X955 (thixotropic agent) and mix for 1 minute or until homogeneous.

Spread the mixed product onto the surface with a squeegee and back roll with a roller at the consumption rate of 0.2 – 0.4 kg/m² depending on the porosity of the concrete surface.

For substrate with residual moisture content up to 4 and CM% applied only once.

(C) Technical data

Liquid mixture (A+B)

1. Mixing ratio A : B	100 : 32 by weight (kg)
2. Working time (20°C)	approx. 20 minutes (+ 5 minutes pre-reaction time)
3. Application temperature	10 – 30°C (min. 3°C above dew point)
4. Material consumption	approx. 200–400 g/m ²
5. Overcoating (25°C)	within 5 – 24 hours
6. Cure time to withstand:	
Foot traffic (25°C)	after 5 – 8 hours
Heavy traffic (25°C)	after 3 days
Exposure to chemicals (25°C)	after 7 days

For substrate with residual moisture content above 4 and up to 6 CM%, apply twice. The first layer must be applied with spatula at minimum consumption rate of 0.4 kg/m², followed by a second layer at minimum consumption rate of 0.3 kg/m². The first layer must not be sprinkled over with quartz sand. The second layer can be rolled with a short pile roller 5 hours after the application of the first layer. Ensure that a film-forming, closed surface is produced.

To improve inter-layer adhesion, sprinkle FLOORFINDER QS 0.3-0.8 quartz sand lightly (approx. 800 g/m² while the primer is still wet. If a two-coat application, sprinkle FLOORFINDER QS 0.3-0.8 quartz sand only on the second coat.

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

Overcoating

Overcoating has to take place after 5 hours but within 24 hours after application of FLOORFINDER EP-P210(S) ^{FF}. If longer, the surface has to be lightly 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 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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