

Note on English translation / Hinweise zur englischen Fassung

This is a translation of the product data sheet valid in Germany.

All stated details and properties are in compliance with the regulations of the German standards and building regulations. They are only applicable for the specified products, system components, application rules, and construction details in connection with the specifications of the respective certificates and approvals.

Knauf Gips KG denies any liability for applications outside of Germany as this requires changes acc. to the respective national standards and building regulations.

KNAUF



Floor Systems

F451.de

Product Data Sheet

2020-09



FE-Imprägnierung

Low viscosity epoxy resin for floor applications

Product description

FE-Imprägnierung is a low viscosity, solvent free two component epoxy resin, consisting of components A (resin) and B (hardener).

Mixing ratio: Components A:B = 2:1. The components are provided in combo packs in the correct mixing ratio.

Storage

Store cool, dry and frost-free. Brief exposure to frost is harmless.

Can be stored for up to 24 months.

Properties and added value

- Very low emission, EMICODE EC 1^{PLUS}
For details see www.emicode.com/en
- Low viscosity
- Quick setting
- Epoxy resin bonded

- Pigmented yellow
- Water-free
- Solvent-free
- For interior application

Field of application

FE-Imprägnierung features a wide range of applications.

It is used:

- As a bonding layer under bonded screed
- As a primer before application of Knauf FE-Abdichtung
- As a component for quick-setting screed Stretto
- As a bonding primer under N 440
- As a component of levelling mortar EPO-Leicht
- For filling cracks in screed



Application

Caution	Only persons that are familiar with chemically setting substances are allowed to apply these products.
	The rooms must be ventilated sufficiently (preferably with lateral ventilation).
	Wear protective goggles (e.g. during mixing), suitable protective gloves and working clothes to prevent contact with skin.
	The accident prevention regulations of the German commercial employer's liability insurance associations (e.g. BG Bau - Practice guideline for the handling of epoxy resin or HVBG - BGR 227 Working with epoxy resin - <i>German only</i>) have to be complied with at all times.
	Additionally, the instructions and guidelines of the BEB Information Sheets KH-O/U, KH-1, KH-3 apply.

Mixing

Add component B (hardener) to component A (resin) and mix thoroughly with a mixer (approx. 400 RPM). Ensure that the material sticking to the sides of the mixing container is blended in as well. Subsequently transfer the compound to a suitable clean container. Scrape out all remaining material with a spatula and add it to the compound while stirring again. Refilling in another container is necessary to collect all material, especially at the bottom of the mixing container, which might not have been correctly mixed. This will avoid areas which will not set and harden.

For the preparation of Stretto and EPO-Leicht, both components have to be mixed properly before adding the supplements (Stretto-Sand, EPO-Perl). Refilling to another container can be neglected in this case.

After mixing FE-Imprägnierung, it should be applied within a few minutes as it heats up in the container and has a much shorter setting time.

FE-Imprägnierung as a bonding layer

If FE-Imprägnierung is used as bonding primer, the substrate surface temperature must be above 10 °C. Ensure that the surface temperature is not below the dew point if air humidity is high.

FE-Imprägnierung will not harden in conjunction with water.

Apply FE-Imprägnierung impregnation agent in two work steps:

1st application approx. 250 g/m²

2nd application approx. 100 gm² and approx. 1.5 kg/m² interspersation of coarse dry sand (e.g. grain size 0.5 to 2.0 mm).

The required hardening time between impregnating coats and subsequent screed application is 24 hours respectively.

Stretto, EPO-Leicht, FE-Abdichtung sealing shield

Apply according to the following product data sheets:

[Stretto F331.de](#)

[EPO-Leicht F441.de](#)

[FE-Abdichtung F455.de](#)

Application temperature / climate

The application temperature of FE-Imprägnierung is between 10 °C and 25 °C.

Application time

The setting speed and accordingly the application (working) time depends on the temperature. At 20 °C, the application time for material in its pure form is approx. 15 minutes, as Stretto approx. 60 minutes and as EPO-Leicht approx. 45 minutes.

At low temperatures, a longer application time can be expected, while at high temperatures a shorter application time can be expected.

Drying time

Observe the following drying times:

- | | |
|----------------------|------------------------|
| ■ Walkable | after approx. 24 hours |
| ■ Mechanical loading | after approx. 3 days |
| ■ Chemical exposure | after approx. 7 days |

Material requirement and efficiency

Application	Consumption
Stretto	1 kg on 25 kg Stretto-Sand
EPO-Leicht light levelling mortar	1 kg on 60 litres of EPO-Perl
As a bonding layer	Approx. 350 g/m ² (1st application approx. 250 g/m ² + 2nd application approx. 100 g/m ² + intersperse with approx. 1.5 kg/m ² dry silica sand (e.g. grain size 0.5 – 2.0 mm)
As a primer for FE-Abdichtung	Approx. 400 g/m ² FE-Imprägnierung impregnation agent

Mixing ratio (components A : B): 2:1

Product range

Description	Application	Packaging unit	Material number	EAN
FE-Imprägnierung	1 kg	10 tins/carton 280 tins/pallet	00002871	4003982000774
	5 kg	45 tins/pallet	00002870	4003982000767
	10 kg	30 tins/pallet	00002869	4003982000750

Sustainability and environment

Short description	Unit	Value
Certificates	–	Ecode EC1



Observe safety data sheet!

For safety data sheets and CE marking see
pd.knauf.de



Videos for Knauf systems and products can be found under the following link:

www.youtube.com/knauf



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