

Epoxy primer for mineral substrates, resistant to osmosis

Characteristics

HADALAN® EG145 13E is an adhesive priming resin specially designed to protect floors from moisture. It improves the adhesion of subsequent coatings even in case of considerable temperatures and humidity variations.

- osmosis resistant
- Solvent-free
- Highly reactive, promotes adhesion
- Good penetration

Use

HADALAN® EG145 13E is used for priming subsequent coating systems, paint systems and sealings and also for producing epoxy resin mortars on mineral substrates such as concrete, screed, firmly adhering tile coverings and similar. A generous, floating primer application will seal the pores in the substrate.

HADALAN® EG145 13E is osmosis-stable and thus ideally suited for preparing the substrate of balconies and terraces for coating.

By adding **HADALAN® FGM003 57M**, self-levelling priming and scratch coating compounds can be produced, by adding **HADALAN® FGM012 57M**, high-strength epoxy resin mortars.

HADALAN® EG145 13E is suitable as vapour barrier on mineral undergrounds.

Areas of application:

- Concrete and screed
- Ceramic floor tiles, flagstones
- Workshops and store rooms
- Damp substrates and floor surfaces
- Balconies and terraces
- Exterior stairs and steps

Specifications

Presentation	tin bucket
2-component container	8.7 kg/2.9 kg/1 kg
Component A, resin	6 kg/2 kg/0.69 kg
Component B, hardener	2.7 kg/0.9 kg/0.31kg
Delivery form	42/84 units/pall. 12 x 1 kg/carton
Working temperature	+8 °C to +30 °C
Workable time ¹⁾	15-20 minutes
Density ¹⁾	1.05 kg/l
Viscosity, ready to use ¹⁾	2.4 dPa•s
Mixing ratio	100 parts by weight of component A : 45 parts by weight of component B.

Adhesive tensile strength on concrete after a drying time of 7 days	> 4.8 N/mm ²
---	-------------------------

Storage	frost-free and cool, 12 months
---------	--------------------------------

¹⁾ At +20 °C and 60 % relative humidity.

Quantity required

Priming:	0.2 -0.4 kg/m ²
Quarzsand for dressing 0.1-0.5 mm grain size	0.2 -0.4 kg/m ²

Preparation of the surface

The substrate must be firm, sound, clean and free of cracks and adhesion-reducing substances. Remove any adhering dirt and debris, release agents, oils, residual mortar, old coatings, etc. by shot peening, milling, grinding or sandblasting.

Adhesive tensile strength of the substrate must be at least 1.5 N/mm².

The moisture content of the surface zone (approx. 3 cm) must not exceed the compensation moisture of the building materials.

Concrete and cement screed: < 4% by weight

Anhydrite screed: < 0.5% by weight

The substrate must be protected from increasing and penetrating moisture.

The compression strength of the substrate must be at least 25 N/mm².

The floor surface has to be prepared by e.g. dust-free shot-blasting, diamond grinding, grinding or other suitable measures. The granular structure must be laid open and all separating substances and loose components must be removed consequently.

As a rule, substrates into whose surface agents (e.g. wax) have been incorporated for smoothing, must be removed by milling and subsequent shot-blasting. Check the compatibility with existing coatings; completely remove layers and coatings without load-bearing capacity. Screeds containing asphalt are difficult substrates due to their formability under mechanical and thermal load. Thus, they may be coated with special systems only. Please contact our technical service department.

Remove the surface of existing tiling being stuck by diamond grinding or milling. The glaze must be removed completely.

Application

Both components are packed and supplied in special containers already providing the correct mixing ratio.

1. Pour all of the hardener into the resin component. Use a slow-running stirring device with attached agitator (revolving at about 400 rpm) to mix both components to produce a homogenous compound. Mix and stir for at least 2 minutes. Wipe off components clinging to the container side or bottom or to the agitator and put them back into the compound. Subsequently fill the compound into a clean container and stir once again for a brief period.
2. After mixing is complete, use a roller or a squeegee to apply a generous coat of **HADALAN® EG145 13E** on the substrate. By a risk of humidity from the back side or vapor diffusion, apply the priming and film-forming and pore-free. If necessary, apply the priming in 2 layers. Alternatively, **HADALAN® EG145 13E** can be charged with **HADALAN® FGM003 57M** (mixing ratio: 1:1). This compound has to be applied film-forming with a roll. Consumption: 0,6 - 0,8 kg/m²
The filling mixture allows a better air elimination from the underground pores.
3. If thick coatings apply subsequently sprinkle hot-air dried **Quartz0105 57M** into the fresh primed surface net-like covering to improve adhesion. Consumption: 0.6 - 0.8 kg/m²
Do not intersperse the full surface.
4. The next coating layer can be applied after at least 6 hours, but not later than 24 hours after priming. If the primed surface is sanded, it provides good adhesion to subsequent coatings even after several days.
5. Subsequent coatings are applied according to the instructions specified in the data sheet of the corresponding product.
6. Clean tools with **HADALAN® EPV 38L** immediately after use. Once dried, the product can only be removed mechanically .
7. Adding **HADALAN® FGM012 57M** will produce highly filled, liquid-tight coatings and reaction resin mortars. For more detailed information, refer to the product data sheet.

hahne system products

HADALAN® reactive resin systems

Important notes

- Keep to a working temperature of +8 °C to +30 °C.
- Low temperatures slow down and high temperatures accelerate setting.
- Strictly observe the waiting time between two coatings.
- Apply the mixed product without any delay. Due to exothermic reaction, the product will cure faster in its container. Poured out product remains workable for a longer period of time.
- By a risk of humidity from the back side or vapor diffusion, apply the priming and film-forming and pore-free. Incorrect, not pore-free priming can lead to peel-off or to blowing, in case of subsequent sealings from non osmosis resistant resin reactions or elastic sealings from the balcony protection system.
- Observe temperatures of 3 °C over the dew point during application and drying.

Ingredients

Epoxy resin, epoxy resin hardener, bonding agent

Safety provisions/recommendations

For detailed information about safety precautions regarding transport, storage and handling, please refer to the current safety data sheet.

Disposal

The local waste removal regulations must be observed.

Manufacturer

Sievert Baustoffe GmbH & Co. KG
Mühlenschweg 6, 49090 Osnabrück
Tel +49 2363 5663-0, Fax +49 2363 5663-90
hahne-bautenschutz.de, info-hahne@sievert.de

This information is based on extensive tests and practical experience. However, it cannot be applied to every type of application. If in doubt, we recommend that you test the product before using it. Due to continuous product improvement, this information is subject to change without notice. Our General Terms and Conditions apply.
Version as of 12.2020