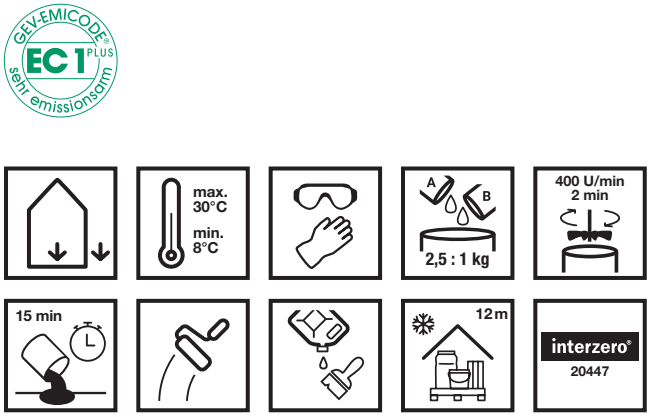
HADALAN® EG145 13E

Epoxy primer for mineral substrates, osmosis-resistant



These pictograms apply to the **basic product**.
Deviations are possible depending on the area of application and processing.

PRODUCT INFORMATION

Description

HADALAN® EG145 13E is a fast epoxy resin. Adheres very well to almost all dry and clean substrates. Due to its high osmosis resistance, there is a very good bond even when exposed to moisture on the back. The material is characterized by its good chemical resistance to water, salt solutions, petrol, oils, greases and many other chemicals as well as its mechanical strength. HADALAN® EG145 13E can be used filled or pure as a primer, scratch coat, surface roughness filler and EP mortar.

Application

- as a primer for subsequent paint systems, coatings and sealants
- for the production of self-leveling primers and scratch coats in combination with HADALAN FGM003 57M
- HADALAN FGM012 57M or HADALAN FGM035 57M must be used as a filler for the production of a synthetic resin mortar
- flooding application of the primer seals pores in the substrate
- as an adhesive and injection for building materials such as concrete, stone, steel, wood, fiber cement, tiles, etc.

Operational area

- Multifunctional use as primer and synthetic resin mortar
- Substrate preparation
- force-fit grouting
- coatings, sealants, coving
- bonding bridges

Place of use

- for interior and exterior use

Properties

- osmosis-resistant
- solvent-free
- can be quickly recoated
- VOC-free

Technical Data

Available container sizes	8.7 kg/combination container 2.9 kg/combination container 1.0 kg/combination container
Component A	6.2 kg / 2.1 kg / 0.7 kg resin
Component B	2.5 kg / 0.8 kg / 0.3 kg hardener
Mixing ratio	2.5 : 1 (resin : hardener)
Density, ready to use	approx. 1.09 kg/l
Processing temperature	+8°C to +30°C
Processing time	approx. 15 – 20 minutes [1)]
Revisability	after approx. 3.5 hours [1)]
Resilience	fully loadable after approx. 5 days
Compressive strength	at a mixing ratio of 1 : 10 with HADALAN FGN012 57M: approx. 110 N/mm²
Flexural strength	at a mixing ratio of 1 : 10 with HADALAN FGN012 57M: > 38 N/mm²
Shore hardness (Shore D)	80
Storage	frost-free and cool, 12 months
Consumption	approx. 0.2 – 0.4 kg/m² as primer approx. 0.3 – 0.6 kg/m² for bonding bridges

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

SUBSTRATE

Properties/tests

- The substrate must be dry, solid, clean, dust-free, absorbent, load-bearing and free of separating agents, corrosive components or other layers that could interfere with the bond.
- In principle, the substrate must be suitable for the coating system.
- The adhesive tensile strength of the substrate must be at least 1.5 N/mm².
- The compressive strength of the substrate should be at least 25 N/mm².
- The moisture content of the zone close to the surface (approx. 3.5 cm) must not exceed the equilibrium moisture content of the building materials.
  Concrete and cement screed: < 4.0 CM%
  Anhydrite screeds: < 0.5 CM%.
- The substrate must be protected against rising and penetrating moisture.

Preparation

- The floor surface must be prepared by e.g. dust-free shot blasting, diamond grinding, milling or other suitable measures. The grain structure must be exposed and all separating substances and loose components must be removed thoroughly. Substrates whose surfaces have been treated with smoothing agents (waxes) must always be removed by milling and subsequent shot blasting.
- Compatibility with old coatings must be checked, non-load-bearing layers and coatings must be completely removed.
- Asphalt-containing screeds are difficult substrates due to their deformability under mechanical and thermal stress. They can therefore only be coated with special systems. Please contact our technical service for more information.
- In the case of existing fixed tile coverings, the surface must be removed by diamond grinding or milling. The glaze must be completely removed.

AREAS OF APPLICATION AND PROCESSING

Applying

- The two components are supplied in special containers in the correct ratio to each other.
- The entire hardener component is added to the resin component. The components are mixed homogeneously using a slow-speed mixer (approx. 400 rpm) with a stirring paddle. The mixing time is at least 1 minute. The little mixed components adhering to the container wall, the base and the stirrer must be scraped off and incorporated into the mix. The material is then transferred to a clean mixing vessel and briefly mixed again.
- After mixing, HADALAN EG145 13E is applied generously and film-forming to the substrate to be primed using a rubber squeegee or roller. If necessary, apply 2 coats of primer. Alternatively, HADALAN EG145 13E can be filled with HADALAN FMG003 57M as a scratch filler or roughness filler.
- Further application can take place after 3.5 hours at the earliest, but no later than 24 hours after application of the primer. If this is not adhered to, the surface must be sprinkled with suitable quartz sand.
- By adding HADALAN FGM012 57M, highly filled, liquid-tight fillers and reaction resin mortars can be created. Please refer to the data sheet for further details.

Drying / Follow-up work

- The following layer structures can be found in the respective technical data sheets.

NOTES

Cleaning

- Clean tools immediately after use with HADALAN EPV 38L.
- Hardened material can only be removed mechanically.

System products

- HADALAN® FGM003 57M
- HADALAN® FGM012 57M
- HADALAN® EPV 38L

To be observed

- Maintain a processing temperature of +5 °C to +30 °C.
- High temperatures accelerate, low temperatures delay the setting process.
- It is essential to observe the application distances for multi-layer coatings.
- Process mixed material quickly. Material cross-links faster in the container (exothermic reaction). Poured material can be applied for longer.
- Improper, non-porous priming can lead to detachment or partial blistering with subsequent coatings of non-osmosis-resistant reaction resins or elastic seals from the balcony protection system.
- The substrate temperature must be at least 3 °C above the dew point temperature during application and curing.

Ingredients

- Epoxy resin, Epoxy hardener
- Bonding agent

Occupational safety / Recommendation

- Further information on safety during transportation, storage and handling can be found in the current safety data sheets. Detailed information can be found in the leaflet “Epoxy resins in the construction industry”, published by the Arbeitsgemeinschaft der Bau-Berufsgenossenschaften, Tiefbau-Berufsgenossenschaft, Industrieverband Klebstoffe e.V., Bauchemie und Holzschutz e.V. in Frankfurt.

Disposal

- The following applies to all systems: Only return empty containers to recycling partner Interseroh. Cured material residues can be disposed of in accordance with EWC code no. 08 01 11 (paint and varnish waste containing organic solvents or other hazardous substances).

Producer

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The statements are made based on extensive tests and practical experiences. They cannot be applied to every application case. Therefore, we recommend carrying out application trials if necessary. Subject to technical changes in the course of further development. Furthermore, our General Terms and Conditions of Business apply.