

Hammerfast EP-135

Technical data sheet

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Description

3 component, high strength, solvent free epoxy resin based, epoxy repair and assembly and casting mortar consisting of special aggregates composition.

Advantages

- Solvent free.
- No shrinkage.
- No primer required.
- High adhesion, pressure and abrasion resistance.
- High chemical resistance.
- It hardens fast.
- It provides high adhesion to concrete, steel, wood, stone.
- It performs deep adhesion by going down to the gaps on the surfaces it is applied with its fluidity feature.
- Water impermeable.

Usage areas

- Filling wide cracks and gaps,
- Machine foundations,
- Repair of reinforced concrete structural system components,
- Fixing the steel columns to the foundation,
- Floor repair and correction works,
- Anchoring of prefabricated buildings,
- Sprout planting on horizontal surfaces,
- Inelastic joints and bridge supports,
- Repair of large cracks,
- Bridge carrier plates,
- Epoxy and polyurethane floor covering before repair and filling purposes,
- Joint As reinforcing joint when filling the floor (V joints),
- It can be used for the repair of underground structures, seaports such as ports, piers and breakwaters.

Application limits

Pot life	~30 min.*
Workability time	~40 min.*
Set to traffic	24 hours*
Full curing time	7 days*
Application thickness	5 mm - 50 mm (Large spaces max. 20 mm)
Application temperature	+5 °C / +30 °C
Service temperature	-15 °C / +75 °C
Mixing ratio	A=1 kg, B=2 kg, C= 12 kg

*23±2 °C temperature and 50±5% relative humidity values.

Surface preparation

The application surface must be solid, dust-free, clean and free of oil. Concrete, cement, plasters should be dry and have completed the set time. Any accumulated water on the application surface should be removed. On substrates requiring primer, Hammerfast EP-110 can be applied with epoxy primer or with a maximum of A and B components of Hammerfast EP-135. Priming with 10%. The concrete to be applied must have a compressive strength of at least 225 kg / cm², have completed 28 days of curing and must contain at most 4% moisture at the end of this period. On damp surfaces, primer should be applied with Hammerfast N-200. On steel surfaces, sand or spray with sand until bright metal comes out. Rust in the reinforcement should be removed and new reinforcement should be added if necessary.

Application

The packages should be mixed without splitting and mixing ratios changed. Component B is added to component A and mixed for 3-4 minutes until a homogeneous mixture is obtained. Component C is then added and mixed for another 3-5 minutes until a homogeneous mixture is obtained.

Immediately after mixing, the mortar is poured from one side and placed with a trowel. The pouring process should continue at a point at the lowest level until it is completely closed. An air hole must be left at the top level to allow air to escape..

In Grout applications; the mortar should be poured continuously from only one side of the mold, and the material should be secured in place using a hooked steel wire. Molds should not be taken longer than 24 hours, adjustment wedges should be taken before 2 days. After the machine is put into operation, the bolts should be checked.

Consumption

1800-2000 g/m² (For 1 mm thickness)

Technical specifications

Color and appearance	Gray and flowing
Chemical structure	Solvent free epoxy resin based
Density	A+B= 2,00±0,05 kg/lt (at +20 °C)
Flexure strength	1 day= 25 N/mm ² 7 days= 35 N/mm ²
Compressive strength	1 day= 80 N/mm ² 7 days= 100 N/mm ²
Adhesion strength	> 3,0 N/mm ²

Important points

- Do not apply on wet and frozen surfaces above 4% moisture content.
- After application, hot, dry and windy environments should be protected from external influences for 24 hours.
- Necessary measures should be taken in areas where water or water vapor is observed from the negative side.
- Sets of the product are ready to use.
- The components should not be mixed by hand;
- During application, ambient, surface and material temperature should be within specified limits.
- Depending on the adhesive's open time and drying ambient temperature.
- Especially in hot environments, the mixture should be made immediately or should not be left in the bucket after the mixture has been made and transferred to a container with a large surface area or application floor.

Security precautions

- Keep away from children.
- Must not be eaten or swallowed.
- Keep away from food.
- Do not breathe directly, avoid contact with the body.
- May cause an allergy.
- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Use of gloves, goggles and protective clothing is recommended.
- Do not smoke during application.

Storage and shelf life

Unopened original packaging, sunlight and protected from frost, Can be stored for 24 months at temperatures between + 10°C and 35°C.

Packing

15 kg set:

A component	: 1 kg
B component	: 2 kg
C component	: 12 kg

Cleaning of tools

Tools and equipment should be cleaned with cellulosic thinner or suitable solvent after application.

Quality certificates

- ISO 9001:2015
- CE

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