

Multi construction resin, epoxy resin for numerous applications



Characteristics

HADALAN® MBH 12E is an epoxy resin for multifunctional applications. It has an excellent adhesion on almost all dry and clean substrates. The material is characterised by its good chemical resistance to water, saline solutions, petrol, oil, grease and many other chemicals as well as mechanical strength. **HADALAN® MBH 12E** can be applied universally both filled up and pure. Due to the low emission and low yellowing properties many indoor and outdoor applications are possible.

- Solvent-free
- osmosis resistant
- Transparent
- Easy to process
- Adheres very well
- Abrasion resistant
- VOC-free

Use

HADALAN® MBH 12E as a protective coating for substrates exposed to chemical and mechanical stress, and as a thick coat to protect against aggressive substances. As adhesive and injection for construction materials such as concrete, stone, steel, wood, fibre cement, tiles and the like. Replaces in many cases metal connecting elements and elements for anchoring machine parts to concrete. As an adhesion bridge between new and old concrete and as a bonding agent for artificial resin mortar and artificial resin coats. It can also be used as binding agent for decorative design with coloured sands and grains as well as for sealing decorative indoor surfaces. In conjunction with hot air-dried quartz sand as a plastic mortar for patching and coating work with a high mechanical and chemical strength.

Application areas:

- For indoor and outdoor use
- Force-actuated grouting
- Coatings, sealing, chamfers
- Bonding bridges

Specifications

Packaging	Tin bucket
2-comp. container	24 kg / 9 kg / 1 kg (12 x 1 kg/Kart.)
Comp. A, resin	16 kg / 6 kg / 0,66 kg
Comp. B, hardener	8 kg / 3 kg / 0,33 kg
Delivery form	8 /42 Geb./Palette
Density, ready for processing	1.05 kg/l
Processing temperature	+5 °C to +30 °C
Workable time ¹⁾	30 to 40 minutes
Rain-proof ¹⁾	after about 4 hours
Sufficiently hardened and able to take a load ¹⁾	after about 24 hours
Full strength	after about 5 days
Compressive strength in MR 1:13 with HADALAN® FGM012 57M	about 90 N/mm ²
Bending tensile strength in MR 1:13 with HADALAN® FGM012 57M	> 14.8 N/mm ²
Shore D hardness	82
Adhesive pull strength	> 4 N/mm ²
Storage	frost-free and cool, 12 months

Quantity required

Unfilled thick coatings	0.2 - 0.5 kg/m ²
For adhesion bridges	0.3 - 0.6 kg/m ²
Quantity as a primer	0.2 - 0,4 kg/m ²

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

Preparation of the surface

The substrate must be free of oil, grease and loose components. The substrate must have sufficiently high strength for the type of use. If necessary, the carrying capacity must be provided by grinding, milling, shot-blasting, etc. The adhesive pull strength must not be less than 1.5 N/mm².

Application

Compliance is required with the relevant regulations and codes of practice.

1. Stir the hardener (component B) into the resin (component A) free of stripes and homogeneously. Then fill into another pot and once again stir thoroughly briefly.

Mixing ratio:

2 parts by weight of resin : 1 part by weight of hardener

2. Coating according to the application.
3. Clean all the working equipment immediately after use with **HADALAN® EPV 38L**.

By adding **HADALAN® FGM003 57M** and **HADALAN® FGM012 57M**, repair levelling, you can obtain compounds with good chemical and friction resistance for repair work, levelling, grouting and adhesion. Depending on how much you mix in you can obtain a fluid mass or a firm mortar.

1. Stir the bonding agent homogeneously and fill into another pot. Then add the filler to be used and mix thoroughly.
2. The processing is done with a ladle and a smoother. An intermediate cleaning of the smoother with **HADALAN® EPV 38L** simplifies the smoothability of the mortar.
3. To obtain a free-flowing levelling agent, add up to 3 parts by weight **HADALAN® FGM003 57M** to 1 part by weight bonding agent. To obtain a trowelable and waterproof mortar, add up to 10 parts by weight **HADALAN® FGM012 57M** to 1 part by weight bonding agent.

hahne system products

HADALAN® FGM003 57M
HADALAN® FGM012 57M
HADALAN® EPV 38L
HADALAN® DQ308 89M

Important notes

- Maintain the processing temperature of +5 °C to +30 °C.
- Since moisture greatly impairs the hardening of the resin, the additives that are used must be dry.
- High temperatures accelerate and low temperatures delay the progress of hardening.
- The substrate temperature must be at least 3 °C above the dew point temperature.
- Epoxy resins are not permanently colour-fast.

Ingredients

Epoxy resin/hardener

Safety provisions/recommendations

Information regarding the safety during transport, storage and handling is included in the updated safety data sheets.

Disposal

The local waste removal regulations must be observed.

Manufacturer

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