

## Filler mixture for creating artificial resin putty, 0 - 1.2 mm

### Characteristics

**HADALAN® FGM012 57M** is a special combination of mineral fillers with a high packing density. This combination enables easily workable, non-shrinking, epoxy resin mortar with high compression strength to be produced even in high coating thicknesses.

**HADALAN® FGM012 57M** enables the production of mortar impervious to liquids up to a mixture ratio of between 1 and 13 parts of resin. With mortars produced with **HADALAN® FGM012 57M** you can use more filling and can work them easier than mortars produced with quartz sand mixes. It is not necessary to clean the trowel or smoother while working.

- Easy mixing
- Easy working
- High mechanical and chemical load capacity
- Low requirement for binder
- All-purpose
- Enables fillers impervious to liquids to be made
- Dust reduced

### Use

**HADALAN® FGM012 57M** enables high strength epoxy resin mortars to be made for levelling and gradient coatings, filling ruptures and indents, re-profiling of stair treads, laying channels and grouting machine anchors as well as use as a high strength, shrink-free packing up mortar. The high compression strength of up to 100 N/mm<sup>2</sup> means that floor coatings in industrial areas with heavy mechanical and/or chemical loads are also possible.

### Application areas:

- Concrete and screed surfaces
- Industrial floors
- Balconies, terraces, gangways and walkways

### Specifications

Packaging	Paper bag
Container size	30 kg
Delivery form	30 bags/pallet
Colour	grau

### Strengths together with HADALAN® EPUni 12E after 7 days

MR 1 : 4 parts resin : filler	80 N/mm <sup>2</sup>
MR 1 : 8 parts resin : filler	100 N/mm <sup>2</sup>
MR 1 : 13 parts resin : filler	96 N/mm <sup>2</sup>
MR 1 : 20 parts resin : filler	35 N/mm <sup>2</sup>

Bulk density	1,67 g/cm <sup>3</sup>
Storage	dry, 24 months

### Quantity required

Mix ratio Binder : filler per 10 litre mortar	Mix ratio resin/filler in kg
1 : 4	4 : 16
1 : 5	3,2 : 15,8
1 : 8	2,4 : 18,8
1 : 13	1,6 : 20,7
1 : 20	0,9 : 18,8

## Preparation of the surface

The substrates must be firm, load bearing, free of frost, dust, dirt and other loose particles. The residual moisture must not exceed 4 %.

In case of a risk of moisture penetration through the backing or through water vapour diffusion then osmosis resistant **HADALAN® EG145 13E** reactive resin must be used.

Non-load bearing substrates should be prepared by milling, sandblasting or similar. The tensile bond should not be less than 1.5 N/mm<sup>2</sup>, especially where high mechanical loads are to be expected on the top surface. Heavy loads create high pressure point loadings when being transported. These also have to be absorbed by the undersurface.

## Application

1. As the primer, the relevant resin is mixed and applied on the substrate. The mortar is applied on the fresh primer layer and compressed. If this is not possible, the primer layer is sprinkled with **Quartz051 57M**. After hardening, the sand that was not integrated must be swept away using a broom. **HADALAN® EBG 13E** only allows processing whilst still wet. Sprinkling is not possible.
2. Stir **HADALAN® MBH 12E** or **-EBG 13E** with a slow-rotating drilling machine, pour it into another container and briefly stir it again. Then add **HADALAN® FGM012 57M** in the desired mixing ratio and mix with a powerful stirrer with a big basket agitator. The mixing process is not over until the filler and the epoxy resin are mixed homogeneously. Checking in the meantime with a ladle helps to determine this point in time.
3. Epoxy resins react exothermically. Therefore, the stirred compounds must be processed without delay. The processing time depends on the respective mixing ratio and the ambient temperatures. Depending on the conditions, a processing time of 20 to 45 minutes is available.
4. In the fresh state, the tools can be cleaned with **HADALAN® EPV 38L** when working with **HADALAN® MBH 12E**; when working with **HADALAN® EBG 13**, only water can be used for cleaning. Once dry, they can only be cleaned mechanically.

## hahne system products

HADALAN® EPU1 12E  
HADALAN® EG145 13E  
HADALAN® EPV 38L  
HADALAN® EBG 13E

## Important notes

- Epoxy resins react exothermically. High temperatures accelerate and low temperatures slow the setting process.
- In case of a risk of moisture penetration through the backing or through water vapour diffusion, then osmosis resistant **HADALAN® EG145 13E** reactive resin must always be used.
- When applying liquid proof fillers, ensure that the mortar layer is adequately sealed. If necessary check the imperviousness by a wetting test.
- In the case of connected surfaces without recovering, please only use material with the same lot number.

## Ingredients

Mineral fillers, additives

## Safety provisions/recommendations

The usual health and safety measures for handling chemicals are to be observed. Suitable protective clothing should be worn.

## Disposal

The local waste removal regulations must be observed.

## Manufacturer

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