HADALAN® FGM012 57M

Filler mixture for manufacturing synthetic resin filler, 0 – 1.2 mm

DUST-REDUCED

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

PRODUCT INFORMATION

Description

HADALAN® FGM012 57M is a special combination of mineral fillers with a high packing density (grain size 0 – 1.2 mm). This combination enables the production of easily workable, shrinkage-free epoxy resin mortars with high compressive strengths, even in thick layers.
HADALAN® FGM012 57M enables the production of liquid-tight mortars with a mixing ratio of up to 1 GT resin : 13 GT filler. Mortars produced with HADALAN® FGM012 57M can be filled higher and are easier to work with than mortars produced with quartz sand mixtures. It is not necessary to clean the trowel and smoothing trowel during processing.

Application

- enables the production of high-strength epoxy resin mortars for leveling and sloped screeds, filling of excavations and recesses, reprofiling of stair treads, creation of coving, grouting of machine anchors and use as a high-strength, non-shrink underlayment mortar
- due to the high compressive strength of up to 100 N/mm², floor coatings are also possible in industrial areas with high mechanical and/or chemical loads

Operational area

- Concrete and screed surfaces
- Industrial floors
- Balconies, terraces, arcades

Place of use

- for interior and exterior use

Properties

- easy to mix in
- easy to process
- high mechanical and chemical resistance
- high chemical resistance
- low binder requirement
- universal use
- enables the production of liquid-tight fillings
- low dust

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Technical Data

Available container sizes	30 kg/sack
Shade/color tones	anthracite
bulk density	approx. 1,67 kg/dm³
Compressive strength	after 7 days (1 GT HADALAN EPUni 12E : 8 GT HADALAN FGM012 57M) 100 N/mm²
Storage	dry, 24 months
Consumption	depending on application

SUBSTRATE

Properties/tests

- The substrate must be firm, stable, free of frost, dust, dirt and other loose particles.
- The residual moisture of the substrate must be < 4.0 CM%.
- Heavy loads lead to high pressure point loads during transportation. This must also be able to be absorbed by the underbody.
- The adhesive tensile strength should not be less than 1.5 N/mm², especially if the surface covering is expected to be subjected to high mechanical loads.

AREAS OF APPLICATION AND PROCESSING

Applying

- As a primer, the respective resin is mixed and applied to the substrate. The mortar is applied to the fresh primer layer and compacted. If this is not possible, the primer layer is sprinkled with Quartz051 57M. After hardening, the sand that has not been incorporated must be swept away. With HADALAN EBG 13E only a “fresh in fresh” working method is possible. Scattering is not possible.
- Mix HADALAN MBH 12E or HADALAN EBG 13E with a slow-running drill, repot and stir again briefly. Then add HADALAN FGM012 57M in the desired mixing ratio and mix with a powerful stirrer and large basket stirrer. The mixing process is only complete when the filler and the epoxy resin are homogeneously mixed together. Checking in the meantime with a trowel helps to determine this point in time.
- Epoxy resins react exothermically. The mixed compounds should therefore be processed quickly. The processing time depends on the respective mixing ratio and the ambient temperatures. Depending on the conditions, a working time of 20 to 45 minutes is available.

NOTES

Cleaning

- When fresh, the tools can be cleaned with HADALAN® MBH 12E using HADALAN® EPV 38L and with HADALAN® EBG 13E using water. In dry condition only mechanically.

System products

- HADALAN® EPUni 12E
- HADALAN® EG145 13E
- HADALAN® EPV 38L
- HADALAN® EBG 12E

To be observed

- Epoxy resins react exothermically. High temperatures accelerate, low temperatures delay the setting process.
- If there is a risk of moisture penetration or water vapor diffusion from the rear, the osmosis-stable resin HADALAN EG145 13E should always be used.
- When applying liquid-tight fillers, ensure that the mortar layer is sufficiently compacted. If necessary, a wetting test should be carried out to check for leaks.
- Optically related areas must be prepared with material from the same production batch to prevent colour differences.

Ingredients

- Mineral fillers
- Additives

Occupational safety / Recommendation

- The usual hygiene and precautionary measures when handling chemical products must be observed. Wear suitable protective clothing. Further information on safety during transportation, storage and handling can be found in the current safety data sheets.

Disposal

- The following applies to all systems: Only return empty containers to recycling partner Interseroh. Material residues can be disposed of according to EWC code no. 17 09 04 (mixed construction and demolition waste with the exception of those falling under 17 09 01, 17 09 02 and 17 09 03).

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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.