



## TECHNICAL DATA SHEET

# KEIM ARMIERUNGSMASSE-100

## 1. PRODUCT DESCRIPTION

KEIM Armierungsmasse-100 is a mineral, factory-produced dry mortar GP as per DIN EN 998-1 for gluing and reinforcing.

## 2. FIELD OF APPLICATION

Gluing of mineral wool and EPS insulation panels. Medium- to thick-layered reinforcement (4-11 mm) in KEIM ETIC systems acc. to Z-33.43-185, Z-33.4.1-45 und Z-33.44-188 and, also suitable for plinth area application.

## 3. PRODUCT PROPERTIES

- Without addition of biocides
- High layer thickness for increased heat retention capacity
- Excellent processing properties
- Fibre-reinforced
- High water vapour permeability

### Material characteristics:

- Grain size: 0 – 2.0 mm
- Bulk density: approx. 1.1 g/cm<sup>3</sup>
- Compressive strength class: CS III (3.5 up to 7.5 N/mm<sup>2</sup>)
- Water absorption: W2 as per EN 998-1
- Diffusion resistance: ≤ 15 (μ-value)
- Adhesive tensile strength: > 0.08 N/mm<sup>2</sup>  
acc. to DIN EN 1015-12  
(fracture pattern A, B or C)
- Fire behaviour: A1

## 4. APPLICATION INSTRUCTIONS

### Substrate preparation:

The substrate must be firm, dry, clean, and free of grease and dust. The permanent compatibility of possibly existing coatings with the adhesive mortar must be professionally tested.

### Mixing ratio:

Mix a 20 kg bag with approx. 6.0 l of water until lump-free with a powered blunger or a compulsory mixer. Already set reinforcement compound Armierungs-masse-100 may not be diluted with water.

### Panel gluing:

Apply the mixed Armierungsmasse-100 to the insulating panels using the bead-point method so that gluing of at least 40% is guaranteed.

MW lamellae are glued over the full surface. Do not apply adhesive into the panel joints. Glue the panels closely joined in groups from bottom to top. In the case of EPS panels, Armierungsmasse-100 may also be applied to the substrate in beads, maximum spacing of the adhesive beads 10 cm, whereby at least 60% of the area must be covered with mortar stripes.

### Reinforcement layer:

Apply Armierungsmasse-100 by machine or manually with a rust-free trowel evenly onto the insulating panels. Then embed the system reinforcing mesh panels (joints should overlap by 10 cm) and overcoat wet-in-wet with Armierungsmasse-100. Necessary cuts into the fibre mesh, e.g. at scaffold anchors, must be covered with an additional mesh strip. The Fibre Mesh Medium (6x6) should be embedded in the top third. In the corner areas of building openings additionally embed the KEIM Diagonalarmierung (mesh for diagonal reinforcement).

### Machine processing:

KEIM Armierungsmasse-100 can also be mixed with a continuous mixer. The water quantity needs to be adjusted to the processing consistency. Before application by hand, the mortar has to be briefly stirred with a blunger after a maturing time of a few minutes. Mortar pumps with a variable pumping flow are suitable for machine application of reinforcing material mixed in the continuous mixer. The maximum conveying length should be less than 40 m. Moreover, KEIM Armierungsmasse-100 can be mixed and processed with mixing pumps (e.g. G4). Worm pumps with a delivery capacity adapted to the application quantity are to be used. The maximum conveying length therefore should be no more than 30 m.

### Application conditions:

Ambient and substrate temperature must not fall below + 5 °C during the application and drying phase. Do not apply in direct sunlight or onto sun-heated substrates. Protect surfaces from wind and rain during and after application.

### Drying time:

At least 3 days, depending on the temperature, layer thickness and relative humidity.

In case of layer thicknesses of up to approx. 6 mm, coating with mineral structure plasters can only be carried out after 3 days at the earliest.



## Consumption:

Gluing: approx. 3.5 kg/m<sup>2</sup>

Reinforcement: approx. 1.1 kg/m<sup>2</sup> per layer thickness of 1 mm.

The consumption value is a non-binding reference value.

## Cleaning of tools:

Clean with water immediately after use.

## 5. PACKAGING

20 kg bag, 500 kg BigBag

Silo on request

## 6. STORAGE

Shelf life is approx. 12 months if kept dry and cool in originally closed container. Protect from moisture.

## 7. DISPOSAL

EC Waste Code No. 17 01 01.

## 8. SAFETY INSTRUCTIONS

Giscode: ZP1

Provide appropriate protection for surfaces which are not to be coated (e.g. glass, natural stone, ceramics etc.). Any splashes on surrounding surfaces or traffic areas must be rinsed off immediately with plenty of water. Protect the eyes and skin from splashes. Keep out of reach of children.

Please refer to EC Safety Data Sheet.

## 9. CERTIFICATES & QUALITY SEALS



The stated values and properties are the result of extensive development work and practical experience. Our recommendations for application, whether given verbally or in writing, are intended to provide assistance in the selection of our products and do not establish a contractual relationship. In particular, they do not release those purchasing and applying our products from the duty of establishing for themselves, with due care, the suitability of our products for the intended application. Standard building industry practices must be complied with. We retain the right to make modifications to improve the products or their application. This edition supersedes all earlier editions.