



TECHNICAL DATA SHEET

KEIM PULVERKLEBER-90

1. PRODUCT DESCRIPTION

Hydraulically setting, powdery cement-based adhesive.

2. FIELD OF APPLICATION

Adhesive and reinforcing compound for KEIM external thermal insulation composite systems. General construction technique permit / national technical approval: Z-33.4.1-45; Z-33.41-188; Z-33.43-185; Z-33.47-727. According to Z-33.47-660 and Z-33.43-942 it is approved for use in the Classic and Classic Plus systems on soft wood fibre insulation boards.

3. PRODUCT PROPERTIES

- excellent application properties
- easy to apply
- hydrophobised
- fire behaviour: non-flammable (A1)

MATERIAL CHARACTERISTICS:

- Maximum grain size: 1.2 mm

CLASSIFICATION:

- Plaster type: GP
- Adhesive tensile strength: $> 0,25 \text{ N/mm}^2$
- Fracture pattern Adhesive tensile strength: A,B,C
- Standard Adhesive tensile strength DIN EN 1015-12: DIN EN 1015-12
- Water absorption class: W2
- Standard Water absorption DIN EN 1015-18: DIN EN 1015-18
- Water vapour diffusion resistance value (μ -value): ≤ 20

4. APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION:

The substrate must be strong, dry, clean, sound and free from adhesion-reducing residues and must not be too absorbent. The permanent compatibility of any existing coatings with the adhesive mortar must be examined by an expert.

APPLICATION CONDITIONS:

Ambient and substrate temperature $\geq 5 \text{ }^\circ\text{C}$ during application and drying. Do not apply in direct sunlight or on sun-heated substrates. Protect surfaces from direct sun, wind and rain during and after application.

PREPARATION OF MATERIAL / MIXING & CONVEYING:

Mix KEIM Pulverkleber-90 with approx. 5,0 - 6,0 L (specification per bag) of clean water with a power stirrer to a stiff-plastic consistency without lumps and allow to mature briefly. Do not remix already stiffened material with water. KEIM Pulverkleber-90 can be mixed with a continuous mixer. The water quantity must be adjusted to the processing consistency

TECHNICAL DATA SHEET – KEIM PULVERKLEBER-90

and the material must be stirred briefly with a power stirrer after a maturing time of a few minutes before hand application. Mortar pumps with variable flow rates are suitable for machine application of the mortar mixed in the continuous mixer (e.g. Speedy P 15). Maximum conveying length should not exceed 40 m. KEIM Pulverkleber-90 can also be mixed and processed with mixing pumps (e.g. G4). Screw pumps with a flow rate adapted to the application rate should be used. The max. conveying length should not exceed 30 m and the conveying height should not exceed 10 m. From 6 m conveying height, the use of a hose with a diameter ≥ 35 mm is recommended.

CONSUMPTION:

approx. 4–5 kg/m² as adhesive or reinforcement.

These material consumption values are guide values for smooth substrates. Exact consumption values must be determined by means of test areas.

APPLICATION:

Application method with stainless steel trowel or notched trowel, or mechanically.

GLUING:

Apply the system's adhesive mortar to the insulation panels using the bead-and-dot method, ensuring an adhesion of ≥ 40 %. The adhesive mortar may also be applied partially to the substrate. In this case at least 50% of the substrate must be covered with adhesive beads. The adhesive beads must be at least 5 cm wide and at least 1 cm thick in the center and must not exceed the center distance of 10 cm. The insulation panels must be immediately floated into the fresh adhesive mortar to achieve full-surface bonding. General instruction with regard to gluing: Do not apply adhesive to the panel joints.

REINFORCEMENT:

Apply KEIM Pulverkleber-90 evenly to the insulation panels by machine or manually with a stainless steel trowel. Embed system-specific reinforcing mesh, overlap 10 cm at the edges and overcoat wet-in-wet with KEIM Pulverkleber-90. Necessary cuts into the mesh, e.g. at scaffold anchors, are to be covered with an additional strip of mesh. The system-specific KEIM Glasfaser-Gittermatte (glass fiber mesh) should be placed in the upper third and fully embedded. In the corner area of building openings, additionally embed a KEIM Diagonalarmierung. Refer to and observe the specifications for layer thickness from the system approval used.

AFTERTREATMENT:

KEIM Pulverkleber-90 must be protected from drying out too quickly due to sun or wind, or kept moist if necessary.

SETTING TIME:

at least 1 day per mm render thickness (depending on temperature and relative humidity).

CLEANING OF TOOLS:

Clean tools, machines and mixers immediately after use with water. In hardened state only a mechanical removal is possible.

5. PACKAGING

Container content	Unit of measure	Quantity on pallet	Type of container
25	kg	36	bag

6. STORAGE

max. storage time	Storage conditions
12 months	dry cool keep container tightly sealed.

7. DISPOSAL

For disposal information refer to section 13 of the safety data sheet.

Waste code: 17 01 01

8. SAFETY INSTRUCTIONS

Please, refer to the Material Safety Data Sheet.

9. GENERAL INFORMATION

Cover surfaces not to be treated, especially glass, ceramics and natural stone. Any splashes on surrounding surfaces or traffic areas must be rinsed off immediately with plenty of water.

Mixing with products not part of the system or other foreign additives is not permitted.

10. 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 the purchaser and processor from the obligation to convince themselves of the suitability of our products for the intended application with due care, which is general practice in trade and crafts. The general rules of construction technology must be observed. We reserve the right to make modifications to improve the product or its application. This edition supersedes all earlier editions.