



TECHNICAL DATA SHEET

KEIM POROSAN®-AP-LEVEL

1. PRODUCT DESCRIPTION

Dry mortar based on trass, lime, frost-resistant sand, cement and additives to adjust the required properties. Normal plaster mortar according to DIN EN 998-1. The strength corresponds to mortar category CS II. Complies with the requirements of the WTA data sheet 2-9-20/D as a levelling and pore base plaster in the Porosan-System and has been certified by the WTA.

2. FIELD OF APPLICATION

KEIM Porosan-AP-Level is used in the Porosan Restoration Plaster System for the restoration of salt-damaged plaster surfaces indoors and outdoors as a base plaster for levelling out unevenness, for achieving total plaster thicknesses of more than 40 mm, and as a pore base plaster in accordance with the WTA data sheet. For the application range of the restoration plaster system as a whole, see the technical data sheet KEIM Porosan or the technical data sheet KEIM Porosan-HF.

3. PRODUCT PROPERTIES

- low stress
- QNG compliant
- permeable
- good machine processability
- very good stability
- fire behaviour: non-flammable (A1)

MATERIAL CHARACTERISTICS:

- Maximum grain size: 4 mm

CLASSIFICATION:

- Water absorption class: W2
- Standard Water absorption: DIN EN 1015-18
- Thermal conductivity λ_{10} , dry, mat for P=50%: 0.82 W/(mK)
- Thermal conductivity λ_{10} , dry, mat for P=90%: 0.89 W/(mK)
- Water vapour diffusion resistance value (μ -value): ≤ 15
- Compressive strength category: CS II (1,5 – 5,0 N/mm²)
- Standard compressive strength: DIN EN 1015-11
- Adhesive tensile strength: $\geq 0,08$ N/mm²
- Standard Adhesive tensile strength: DIN EN 1015-12
- Fracture pattern Adhesive tensile strength: A,B,C
- Classification according to: DIN EN 998-1
- Plaster type: R
- WTA certified according to: WTA Merkblatt 2-9-20
- Porosity: ≥ 45 %
- Water absorption WTA after 24 h on panes: $\geq 0,3$ kg/m²

- Water penetration WTA after 24 h tested on panes: ≤ 5 mm

COLOUR SHADES:

grey

4. APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION:

Remove existing salt-laden plaster up to at least 80 cm (very important) beyond the visible damage line down to the load-bearing masonry. Immediately remove any salt-containing rubble. Remove crumbly joint mortar to a depth of at least 2 cm, replace crumbly stones. Thoroughly dry-clean masonry (e.g. wire brush) and then remove dust (e.g. with compressed air). Highly absorbent masonry must be pre-wetted.

Apply a criss-cross, net-like roughcast key coat with KEIM Porosan-Trass-Zementputz on non-absorbent or quarry masonry so that the masonry is still easily visible afterwards (approx. 50 - 70 % coverage). Indentations, holes and other unevenness are to be filled or levelled with KEIM Porosan-Ausgleichsputz-NP.

Non-suitable substrates:

plasto-elastic coatings; saponifiable existing substrates; horizontal and inclined surfaces exposed to weathering; Integration into the ground; cold self-adhesive plastic membranes

APPLICATION CONDITIONS:

Ambient and substrate temperature ≥ 5 °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:

Application can be performed by hand or by machine. Manual application: Mix KEIM Porosan-AP-Level with approx. 4.3 L - 5 L of clean water per bag with a power stirrer to a stiff-plastic consistency without lumps and allow to mature briefly. Do not mix longer than 2 minutes. Machine application: KEIM Porosan-AP-Level can be processed with common mixing pumps (e.g. PFT G4, G5 Putzknecht S48, m-tec M3) without postmixers and without air entraining screw jackets. Free fall mixers, compulsory mixers and other mixers which produce elevated air contents are not suitable. Under no circumstances should material that has already stiffened be remixed with water.

CONSUMPTION:

approx. 1,2 kg/m² per mm

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

LAYERING SYSTEM:

Fill depressions, holes with KEIM Porosan-AP-Level, level other unevenness with a layer of KEIM Porosan-AP-Level with at least a thickness of 10 mm. If the required thickness exceeds 25 mm or under other unfavourable conditions, apply several layers. Roughen the surface well and allow to stand. Dry sweep off any salts that have penetrated the surface in the meantime before continuing with the plaster structure. Further plaster application is carried out with KEIM Porosan or KEIM Porosan-HF in accordance with the relevant technical data sheets.

MOISTURE PROTECTION:

AFTERTREATMENT:

KEIM Porosan-AP-Level must be protected from drying out too quickly due to sun or wind, or kept moist if necessary. In damp rooms (rel. humidity above 65 %), the humidity must be reduced by careful heating and ventilation or dehumidification so that the restoration render can dry out within 10 days. The building owner must be informed that such rooms must also be adequately heated and ventilated during subsequent use.

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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	42	bag

6. STORAGE

max. storage time	Storage conditions
12 months	dry

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.

GISCODE: ZP 1

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.

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.



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