



## TECHNICAL DATA SHEET

# KEIM POROSAN®-HF-SANIERPUTZ

## 1. PRODUCT DESCRIPTION

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Ready-mixed dry mortar made of lime, white cement, sand and additives, produces natural white, pore-hydrophobic restoration plaster mortar (R) according to DIN EN 998-1 with short setting time. The strength corresponds to mortar category CS II. Complies with the requirements of WTA data sheet 2-9-20/D and has been certified by the WTA.

## 2. FIELD OF APPLICATION

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KEIM Porosan-HF-Sanierputz is a restoration plaster with rapid setting for repairing plaster surfaces exposed to moisture and salt. It is suitable for wall surfaces with high moisture loads on old buildings, in base areas, basements, etc., and as a base and finishing plaster on exterior and interior surfaces not in contact with the ground. In the case of low and medium salt load (with prior testing), single-layer plastering is also possible. In case of water under pressure or condensation problems, not sufficient as sole measure (cause must be eliminated). Due to the fine grain size is KEIM Porosan-HF-Sanierputz ideally suited for felted wall surfaces and comparable fine structures.

## 3. PRODUCT PROPERTIES

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- good machine processability
- fast setting
- fast-drying
- mineral
- prevents salt efflorescence
- highly permeable
- frost-resistant
- high salt resistance
- high early rain resistance
- fire behaviour: non-flammable (A1)

### MATERIAL CHARACTERISTICS:

- Maximum grain size: 1.0 mm

### CLASSIFICATION:

- Classification according to: DIN EN 998-1
- Plaster type: R
- WTA certified according to: WTA Merkblatt 2-9-20
- Compressive strength category: CS II 1,5 -5,0 N/mm<sup>2</sup>
- Test standard compressive strength: DIN EN 1015-11
- Adhesive tensile strength:  $\geq 0,08$  N/mm<sup>2</sup>
- Fracture pattern Adhesive tensile strength: A,B,C
- Test standard Adhesive tensile strength: DIN EN 1015-12
- Water absorption class: W2
- Test standard Water absorption: DIN EN 1015-18
- Porosity:  $\geq 40$  %
- Water absorption WTA after 24 h on panes:  $\geq 0,3$  kg/m<sup>2</sup>

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- Water penetration WTA after 24 h tested on panes:  $\leq 5$  mm
- Water vapour diffusion resistance number ( $\mu$ -value): approx. 15

### COLOUR SHADES:

natural white

## 4. APPLICATION INSTRUCTIONS

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### SUBSTRATE PREPARATION:

In the case of highly absorbent substrates or very warm ambient conditions, prewetting must be carried out.

### APPLICATION CONDITIONS:

Ambient and substrate temperature  $\geq 5$  °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-HF-Sanierputz with approx. 5,5 - 6.5 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-HF-Sanierputz 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.

Note Exception to machine equipment: For continuous mixers such as m-tec D20, an LP pipe is required.

### APPLICATION:

Mix plaster to create a smooth, stable consistency and apply to the plaster base:

Lay out plaster (8 - 12 mm) and, after a short waiting time, apply damp on damp to the desired thickness.

### LAYERING SYSTEM:

For adequate salt retention, a plaster thickness of at least 20 - 25 mm is required. In the case of higher plaster thicknesses, heavy moisture loads, extreme salinisation and other unfavorable conditions, work in two or more layers, each layer 10 - 25 mm thick. Lower layers must be well roughened and the standing times must be observed. Salts which have penetrated to the surface in the meantime must be swept off dry before the next layer is applied. The total thickness of 40 mm should not be exceeded. Higher total plaster thicknesses can be achieved with a base plaster layer of KEIM Porosan-Ausgleichsputz-NP. Unevenness, deeper holes or break-out areas must also be levelled with KEIM Porosan-Ausgleichsputz-NP. Caution: Due to the rapid setting, finishing can usually be carried out after 2 - 3 hours. High humidity and low temperatures delay curing, higher temperatures accelerate it.

### TOP RENDER:

When using KEIM Porosan-HF-Sanierputz as finishing plaster, the surface can be felted with a sponge board after sufficient consolidation. Free texturing or washing is also possible.

### AFTERTREATMENT:

KEIM Porosan-HF-Sanierputz 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.

### FINISHING:

Top coats with other plasters are possible (after an appropriate service life), provided their sd value is below 0.2 m. Colour reworking and design can be carried out after 10 days at the earliest. Prior to this, treatment with etching liquid diluted KEIM 1:3 and rinsing with water is required. The functional efficiency of KEIM Porosan-Trass-Sanierputz is only ensured when using the highly diffusible KEIM mineral paint systems, e.g. KEIM Purkristalat, KEIM Granital, KEIM Soldalit, KEIM Quarzil, KEIM

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Biosil, KEIM Ecosil-ME, KEIM Optil and KEIM Reversil.

Note: In damp rooms (rel. humidity above 65 %), the humidity must be reduced by careful heating and ventilation or dehumidification to such an extent that the restoration plaster can dry out within 10 days. The building owner must be advised that such rooms must also be adequately heated and ventilated during subsequent use.

Note: Observe standing times before recoating.

### SETTING TIME:

at least 1 day per mm render thickness (depending on temperature and relative humidity). When used as top coat render, allow to set for at least 5 days before coating. (If the standard rule of 1 day per mm results in longer setting times due to the layer thickness, the longer setting time must then be observed before painting).

### CONSUMPTION:

approx. 1,0 kg/m<sup>2</sup> per mm

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

### 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
6 months	dry

## 7. DISPOSAL

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

### EC WASTE CODE:

Waste code: 17 01 01

## 8. SAFETY INSTRUCTIONS

Please, refer to the Material Safety Data Sheet.

### GISCODE:

GIS code: 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.

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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.



**KEIMFARBEN GMBH**

Keimstraße 16 / 86420 Diedorf / Tel. +49 821 4802-0 / Fax +49 821 4802-210  
Frederik-Ipsen-Straße 6 / 15926 Luckau / Tel. +49 35456 676-0 / Fax +49 35456 676-38  
[www.keim.com](http://www.keim.com) / [info@keimfarben.de](mailto:info@keimfarben.de)