TECHNICAL DATA SHEET

KEIM MYCAL®-POR

1. PRODUCT DESCPRIPTION

KEIM Mycal-Por is a ready-mixed dry mortar according to DIN EN 998-1 based on sand, air-lime, white cement and additives for better processing and adhesion. The strength complies with mortar category CS I. KEIM Mycal-Por is a special mineral lime plaster for interior use, which is characterised by special sorption- and moisture-regulating properties.

2. FIELD OF APPLICATION

KEIM Mycal-Por is a lime-bound fine plaster for manual and machine application and is particularly suitable for the renovation of walls and residential areas in the interior that are at risk of mould. It can be used on all mineral plasters of mortar compressive strength CS I and higher. KEIM Mycal-Por is suitable, on the one hand, for preventing condensation processes when repairing areas susceptible to mould and, on the other hand, for renovating and refurbishing damp interior wall surfaces. Due to its special sorption behaviour, KEIM Mycal-Por can absorb excess moisture from the room air and thus minimise the risk of condensation. The high alkalinity also creates an alkali deposit that minimises the growth conditions for mould. KEIM Mycal-Por is also used as an adhesive and reinforcing compound for the insulation boards in the iPor system or for the room climate boards in the KEIM Mycal system.

3. PRODUCT PROPERTIES

- good machine processability
- sound in terms of building biology
- moisture regulating properties
- reduces risk of condensation
- anti-fungal and anti-algae thanks to natural alkalinity
- fire behaviour: non-flammable (A1)

MATERIAL CHARACTERISTICS:

– Maximum grain size:	0.6 mm

CLASSIFICATION:

– Classification according to:	DIN EN 998-1
– Plaster type:	GP
– Compressive strength category:	CS I 0,4 - 2,5 N/mm²
– Test standard compressive strength:	DIN EN 1015-11
– Adhesive tensile strength:	≥ 0,08 N/mm²
– Fracture pattern Adhesive tensile strength:	A,B,C
– Test standard Adhesive tensile strength:	DIN EN 1015-12
– Water absorption class:	W0
– Test standard Water absorption:	DIN EN 1015-18
– Water vapour diffusion resistance number (μ-value):	≤ 25

COLOUR SHADES:
natural white

Version 12/2021

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. If necessary, prime the room-side panel surface of non-hydrophobic render carrier panels over the entire surface with a brush or by spraying with either CS-Primer or Mycal-Fix. (Please observe Technical Data Sheet of the respective panel.) Allow a waiting time of 4 hours before starting the next work step. Gypsum-containing substrates as well as vapour-tight coatings, wallpapers or similar must be removed. Microbially infested substrates must be pretreated with KEIM Mycal-Fix and removed when wet (at least up to 0.5 m above the visible area) to minimize spore flight as far as possible. Appropriate protective measures, e.g. respiratory mask, must be observed. Pretreatment of the substrates with Mycal-Ex or Mycal-XO is recommended. In the case of highly absorbent substrates or very warm ambient conditions, prewetting must be carried out.

APPLICATION CONDITIONS:
Ambient and substrate temperature during application and drying must be ≥ 5 °C.

PREPARATION OF MATERIAL / MIXING & CONVEYING:
Mix KEIM Mycal-Por with approx. 6.5 - 7.0 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. Application can be performed by hand, via continuous mixer or rendering machine.

APPLICATION:
KEIM Mycal-Por is best applied by hand by spreading the mixed plaster with the steel trowel to an even thickness. Highly absorbent substrates should be slightly pre-wetted and coated wet-on-wet in two coats with KEIM Mycal-Por.

LAYERING SYSTEM:
When applying, the layer thickness is 3 - 10 mm per layer. For thicker layers, apply two coats or alternatively prepare with KEIM Seccopor-Grosso.

GLUING:
Please always follow the instructions in the technical data sheet of the respective board. Pre-wet absorbent boards if necessary. Apply mixed KEIM Mycal-Por preferably with a medium-bed trowel using the comb bed method over the entire surface of the plaster base boards. The butt joints and bed joints must remain free of adhesive! Then press the boards onto the substrate with light pressure and float them in. Glue the boards tightly butted in a bond from bottom to top, remove excess adhesive.

REINFORCEMENT:
A reinforcing layer is always recommended for increased crack resistance. Thickness of the reinforcing layer approx. 4 - 5 mm. Apply KEIM Mycal-Por evenly. Embed KEIM Glasfaser-Gittermatte (mesh), overlap 10 cm at the joints and overcoat wet-in-wet with KEIM Mycal-Por. Necessary cuts into the mesh are to be covered with an additional fabric strip. The system-specific KEIM Glasfaser-Gittermatte (mesh) should be placed in the upper third and fully embedded. In the corner area of building openings, additionally embed a KEIM Diagonalarmierung.

TOP RENDER:
When using KEIM Mycal-Por as finishing plaster, the surface can be felted with a sponge board after sufficient consolidation. Free texturing or washing is also possible.

FINISHING:
KEIM Mycal-Por can be recoated with all KEIM silicate interior paints, KEIM Mycal-Por, KEIM NHL lime plaster, KEIM Uniputz and KEIM interior fillers, provided the standing times are observed.
For prophylaxis and remediation of mould-prone areas, Mycal-Top is recommended as a finishing coat. When recoating with tiles, the insulation boards must always be dowelled through the fabric.

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. 1,3 kg/m² per mm for reinforcement or as top coat render.
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 immediatley 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.

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.

Version 12/2021

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 / info@keimfarben.de