

SYSTEM EASY

# KLEMO

Application data sheet



## PROPERTIES

White, highly flexible marble adhesive with very high adhesive strength, suitable for marble and discolouration-sensitive natural stone, meets the requirements of classes S1, C2 and TE of DIN EN 12 004 and complies with the German guideline Flexmörtel, deformable and tension-equalising, high stability, long open time, easy to work, frost-proof and water-resistant after setting, very low emission (EC 1 PLUS R)

## APPLICATIONS

Laying tiles, glass mosaic and discolouration-sensitive natural stone on walls and floors, bonding on concrete, cement screed, gypsum plasterboard and gypsum fibreboard, fibre cement boards, old tile coverings, cement and lime-cement plasters, gypsum plasters, Mastic asphalt (interior), magnesite, stone-wood and anhydrite screed on balconies, terraces, on facades, on underfloor heating systems and electric panel heating systems, pre-filling of wall and floor surfaces for jointless bathrooms and design floors.

Suitable for indoors and outdoors

## COMPOSITION

White cement, aggregates (0-0.5 mm), trass, admixtures

## SUBSTRATE / FORMWORK

The substrate must be load-bearing, dry, clean and dust-free. Loose paint coatings and dust must be removed. No residues of cleaning agents must adhere to the substrate.

Absorbent cementitious and gypsum-containing substrates as well as fibre cement, gypsum plasterboard and gypsum fibreboard must be primed one day before with SQ Primer. Priming closes the pores of the substrate and regulates the absorbency.

## VERARBEITUNG

### Working temperature

Do not apply at air, material and substrate temperatures below +5 °C and above +30 °C.

### Working time

max. 4 hours

### Mixing / Preparation

To prepare the mortar, sprinkle the contents of the bag (25 kg) into approx. 6 l of water and stir with a suitable mixing tool/stirrer until a workable consistency is obtained.

After a maturing time of approx. 3 minutes, mix again briefly and process within max. 4 hours. Do not dilute already stiffened mortar with water or mix with dry powder.

Up to 20 g of cement-compatible colour pigments can be added per kg of dry mass.

## Application / Processing

When used as a tile adhesive, always apply enough material with the comb trowel to ensure full-surface adhesion. Do not apply more surface than can be covered with tiles in approx. 30 minutes. Once a skin has begun to form on the surface, no more tiles or natural stones may be laid.

In case of highly stressed surfaces (e.g. terraces and balconies outdoors or industrial floors and sales rooms indoors), the bonding should be carried out using the buttering-floating method in order to achieve a bonding as free of voids as possible.

The tile manufacturer's installation instructions must be observed. When laying tiles on heated screeds, DIN 47254 and the ZDB bulletin "Ceramic Tiles and Slabs, Natural Stone and Concrete Stone on Heated Cementitious Floor Structures" must be observed.

When used as a bonding bridge for a subsequent coating with design levelling compounds, apply the material evenly with a comb trowel and smooth off after inserting the reinforcing fabric.

## Setting / Hardening

When used as a tile adhesive, grouting can be started after approx. 24 hours.

For surfaces intended for subsequent coating with design levelling compounds, a waiting time of at least two days must be observed.

The final strength of the material is only achieved after several weeks.

## Tool cleaning

Clean tools and equipment with water immediately after use.

## Other information

Carefully cover adjacent surfaces and components (e.g. windows, window sills, etc.). Immediately wash off any contamination with water.

Freshly applied material must be protected from drying out too quickly and from unfavourable weather conditions (strong sunlight, frost, precipitation, etc.).

## CONSUMPTION / YIELD

Consumption: approx. 1.9 kg/l

Yield: 13.5 l wet mortar per 25 kg bag

## TECHNICAL DATA

|                            |                            |
|----------------------------|----------------------------|
| Processing temperature:    | +5 °C to +30 °C            |
| Working time at 23 °C:     | max. 4 hours               |
| Water requirement:         | approx. 6 litres per 25 kg |
| Maturity time:             | approx. 3 minutes          |
| Open time                  | approx. 30 minutes         |
| Walkable after:            | approx. 24 hours           |
| Fully loadable after:      | approx. 7 days             |
| Groutable after:           | approx. 24 hours           |
| Hue:                       | white                      |
| Grain size:                | 0-0.5 mm                   |
| Adhesive tensile strength: | ≥ 1.0 N/mm <sup>2</sup>    |

## DELIVERY FORM

25 kg bag, 5 kg bag

## STORAGE

Store in a dry and appropriate place.

Can be stored for at least 12 months from the date of production in the sealed original container.

## SAFETY INSTRUCTIONS

The product reacts strongly alkaline with moisture/water. Therefore protect eyes and skin. Wear rubber gloves when applying the product manually. In case of contact with skin, rinse with plenty of water. In case of eye contact, consult a doctor immediately. Observe further instructions in the safety data sheet.

GISCODE: ZP1 (cementitious products, low in chromate).

## DISPOSAL

Dispose of in accordance with official regulations. Empty containers should be recycled. Material residues can be disposed of according to the Waste Catalogue Ordinance under waste code 17 01 01 (concrete) or 10 13 14 (concrete waste and concrete slurry).

## GENERAL INSTRUCTIONS

The information in this leaflet only represents general recommendations. Should any questions arise in a specific application, please contact our responsible technical sales consultant or our online forum <https://betonsprechstunde.moertelshop.com>. Due to the use of natural raw materials, the stated values and properties may be subject to fluctuations. All information is based on our current knowledge and experience and refers to professional application and normal use. All information is non-binding and does not release the user from the obligation to check the suitability of the product for the intended use. A guarantee for the general validity of all information is excluded with regard to different weather, processing and object conditions. We reserve the right to make changes within the scope of further product and application technology developments. The general rules of construction technology, the applicable standards and guidelines as well as technical processing guidelines must be observed. With the publication of this technical data sheet, previous editions lose their validity. For the latest information, please refer to our website [www.moertelshop.com](http://www.moertelshop.com).

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