

SYSTEM EASY

# BASIL

Application data sheet



## PROPERTIES

Light grey, highly flowable, cementitious coating compound for creative floor design, quick-setting, early walkable, shrinkage-free, easy to apply, very low emission (EC 1 PLUS R), can also be applied by machine.

## APPLICATIONS

Production of high-quality, hard-wearing and crack-free design flooring made of concrete using the thin-layer method with minimum installation height, suitable for private and public areas, shops, offices and meeting rooms. Also ideal as a substrate for all subsequent top coverings such as tiles, natural stone, PVC, parquet, carpet, etc., for levelling old, load-bearing substrates in time-bound renovation and refurbishment, for levelling cementitious and calcium sulphate-bound screeds, concrete substrates, old ceramic coverings, dry, magnesia and mastic asphalt screeds in layer thicknesses of 1 to 30 mm, in some cases also up to 35 mm, for levelling on cementitious heating screeds as well as for embedding electric and water-bearing thin-layer heating systems.

A final coat must always be applied.

Suitable for indoors, can also be used outdoors with subsequent bonded sealing

## COMPOSITION

Binder according to DIN EN 197, quartzitic aggregates according to DIN EN 13139, admixtures

## SUBSTRATE / FORMWORK

The substrate must be clean, dust-free, solid and load-bearing. Old separating and sintered layers must be removed by suitable mechanical means, if necessary. Old, water-soluble adhesive residues such as e.g. sulphite-based lye adhesive must be completely removed. Floor surfaces must be free of slopes. The substrate is always primed with SQ Primer. This prevents air bubbles from rising from the substrate when the fresh mortar is applied later, which would lead to porous surfaces on the visible side. Old tiles as well as substrates made of wood or similar materials should be coated 2 days before with an approx. 2 to 3 mm thick spread of KLEMO adhesive mortar with inserted glass fibre mesh textile (120 g/m<sup>2</sup>) to ensure sufficient adhesion. Expansion and/or movement joints already specified from the substrate are to be adopted. Edge strips are to be applied to all wall connections, supports etc. in such a way that under-running is excluded. If there is little height compensation, separation from the wall connection can also be achieved with silicone (silicone bead).

## PROCESSING

### Working temperature

Do not process and allow to dry / set at air, material and substrate temperatures below +5°C and with expected night frost as well as above +30°C, direct sunlight, strongly heated substrates and/or strong wind effects.

### Working time

approx. 20 minutes (times refer to +20°C and 65% relative humidity.) Mortar that has already set must not be diluted with additional water, mixed and further processed.

## Mixing / Preparation

Mix the contents of the bag (25 kg) with approx. 5.5 litres of clean water to a flowable consistency. To do this, add 3/4 of the water quantity and mix for approx. 30 seconds using a whisk. Then add the remaining water and mix again for approx. 30 seconds. After a maturing time of approx. 2 minutes, stir the mortar again briefly.

A Portamix Hippo mixer is recommended for mixing larger quantities in a short time. Mechanical processing with suitable worm pumps, e.g. PFT G4, is also possible. Post-mixers are not required, but a static post-mixer is recommended. The mixed compound can be processed for approx. 20 to 30 minutes. Only mix as much material as can be applied consistently within the processing time.

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

## Application / Processing

BASIL is applied in a single layer in thicknesses of 1 to 30 mm, in some cases up to 35 mm. Make sure that the material is intensively "rolled into the ground" and distributed with the trowel or rubber blade. This compacts it, which is important for good final strength.

## Setting / Hardening

Protect from rapid water extraction by sun, wind or draughts. Low temperatures and/or high humidity delay, high temperatures and/or low humidity accelerate drying and hardening.

## 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.). Wash off contamination immediately with water.

In indoor areas, start heating with slowly increasing room temperature.  
No additives may be added.

## CONSUMPTION / YIELD

Consumption: approx. 1.7 kg/m<sup>2</sup> per 1 mm application thickness

Yield: approx. 15.5 l wet mortar per 25 kg sack

## TECHNICAL DATA

Processing temperature:	+5 °C to +30 °C
Working time at 23 °C:	approx. 20 minutes
Water requirement:	5.5 litres per 25 kg
Mixing time:	approx. 1 minute
Abrasion resistance according to BCA:	AR 0.5
Strength class:	CT-C25-F5 acc. to EN 13813 / DIN 1856
Flexural strength:	approx. 5 N/mm <sup>2</sup>
Walkable after:	approx. 3 hours
Grain size:	0-1 mm
Hue:	light grey

## 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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