

SYSTEM EASY

# PLAN B

Application data sheet



## PROPERTIES

Light grey, flowable, cementitious casting and coating compound, quick-setting, early walkable, shrinkage-free, easy to use, very low emission (EC 1 PLUS), can also be applied by machine.

## APPLICATIONS

Production of highly resistant wear layers on screeds with minimum construction height, suitable for private, public and industrial areas, shops, offices and meeting rooms. Can also be used on surfaces with slight slopes. Suitable for layer thicknesses from 5 to 20 mm, partially also up to 50 mm, compatible with heated screeds as well as electric and water-bearing thin-layer heating systems.

Can be used indoors and outdoors, but not in permanent wet areas.

## 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 caustic adhesives must be completely removed. The substrate is always primed with SQ Primer. This prevents, in particular, air bubbles from rising from the substrate when the fresh mortar is applied later, which would lead to porous surfaces on the visible side. 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 undercutting is excluded. If there is little height compensation, separation from the wall connection can also be achieved with silicone (silicone bead).

## VERARBEITUNG

### 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. 30 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. 4.5 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.

In a sloping situation (max. 3% slope), reduce the amount of water to up to 3.8 l per 25 kg bag.  
Up to 20 g of cement-compatible colour pigments can be added per kg of dry mass.

### Application / Processing

When used as a floor coating, PLAN B is applied in a single layer in thicknesses of 1 to 20 mm, in some cases up to 50 mm.

When used as a casting compound for filling moulds, PLAN B is quickly poured into the mould.

### 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: 14.4 l wet mortar per 25 kg bag

## TECHNICAL DATA

|                                     |   |
|-------------------------------------|---|
| Processing temperature:             | +10 °C to +30 °C                            |
| Working time at 23 °C:              | approx. 30 minutes                          |
| Water requirement:                  | approx. 4.5 litres per 25 kg                |
| Mixing time:                        | approx. 1 minute                            |
| Maturity time:                      | approx. 2 minutes                           |
| Compressive strength after 28 days: | ≥ 40 N/mm <sup>2</sup>                      |
| Strength class:                     | CT-C40-F10 according to EN 13813 / DIN 1856 |
| Flexural strength:                  | ≥ 10 N/mm <sup>2</sup>                      |
| Walkable after:                     | after approx. 6 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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