

SYSTEM EASY

MARFINO CS

Application data sheet



PROPERTIES

MARFINO Concrete Surface is a grindable cement-based design filler for the design of wall and ceiling surfaces, particularly easy and smooth to apply, very good adhesion, sand-free, open to water vapour diffusion, frost-proof and waterproof after final treatment by silicification.

APPLICATIONS

Production of creatively designed visible surfaces in privately and publicly used rooms, sales rooms and in the living area.

After final silicification suitable for interior and exterior use

COMPOSITION

Special cements, finest aggregate, admixtures

SUBSTRATE / FORMWORK

Suitable substrates are load-bearing old plaster surfaces, lime, lime-cement or cement sub-renders, light plasters with a compressive strength $> 1.5 \text{ N/mm}^2$, concrete, masonry, light bricks, aerated concrete and light concrete, wash-resistant dispersion paints.

Old tiles can also be coated without any problems if a thin layer of KLEMO adhesive mortar is applied first and an armour fabric is inserted into it.

Substrates made of plasterboard or wooden boards are prepared in the same way. In wet areas (showers, etc.), the substrate must be additionally sealed waterproof with DSB Flexible Sealing.

The substrate must be primed with SQ Primer.

PROCESSING

Working temperature

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

Working time

approx. 3 hours (times refer to $+20^\circ\text{C}$ and 65% relative humidity.) Mortar that has already set must not be diluted with additional water, mixed and further processed.

Mixing / Preparation

Mix with a whisk, first pour the amount of water specified in the technical data into a clean container and sprinkle in dry mortar. Use clean tap water. Mix material homogeneously and lump-free, allow to mature for approx. 2 minutes and stir again.

Do not mix with other products and/or foreign substances.

Up to 25 g of cement-compatible colour pigments can be added per kg of dry mass. Preferably recommended for this product are the BACKSTEIN GRAN-X colour pigments in granulate form for improved fine distribution in the mass and for an extended colour spectrum.

Application / Processing

The freshly mixed compound is applied and spread in one or more layers with the Venetian smoothing trowel. A waiting time of one day should be observed between two coats. A layer thickness of about 1 mm per layer should be applied. In order to ensure a sufficient layer thickness for the first coat, a quantity of approx. 20 % quartz sand with grain size 0-0.4 mm can be added.

By moistening locally with the spray bottle and smoothing again, a slightly cloudy surface appearance can be created. However, about 10 minutes after application, no further smoothing with the trowel should be done in order not to provoke detachment from the substrate.

Any remaining unevenness in the surface can be smoothed out the next day by sanding. A sandpaper or sanding grid with grit 180 or finer is recommended.

After three days at the earliest, the surface must still be hardened by applying BACKSTEIN LFC Silicification.

Setting / Hardening

The fresh mortar must be protected from drying out too quickly and from unfavourable weather conditions such as frost, draughts, direct sunlight and direct driving rain, if necessary by hanging it with foil.

Tool cleaning

Clean tools and equipment with water immediately after use.

Other information

Unlike most design levelling compounds on the market, MARFINO CS only contains extremely small amounts of plastic additives, which gives it its authentic stone surface. In order to nevertheless achieve a robust and fully water-resistant final result, the final treatment of the surface with the purely mineral BACKSTEIN LFC silicification is necessary. Two to three coats should be applied at intervals of one day. The surface is not visually altered in the process.

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.

CONSUMPTION / YIELD

Consumption: approx. 1.0 kg/m² per 1 mm application thickness

Yield: 5 l wet mortar per 5 kg bag.

TECHNICAL DATA

Processing temperature:	+5 °C to +30 °C
Working time at 23 °C:	max. 3 hours
Water requirement:	approx. 280 ml per 1 kg
Compressive strength after 28 days:	≥ 6.0 N/mm ²
Solid mortar bulk density:	approx. 1 kg/dm ³
Grain size:	flour fine
Hues:	white, grey, cement grey, ivory, basalt grey, petrol, turquoise, oxblood

DELIVERY FORM

5 kg bag, 5 kg bucket, 1.5 kg box

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.

Effective date: 11/2/2022, Version: 1.1 (replaces all previous versions)