KREISEL

TECHNICAL DATA SHEET

ARCHITECTURAL CONCRETE 055

Polymer modelled, structural render

Areas of application

ARCHITECTURAL CONCRETE 055 is a styled plaster, used to make surface imitations of architectonic concrete, concretes and other modelled structures. Available workmanship techniques allow to obtain various types of surface configurations, not only concrete-like structures. The ARCHITECTURAL CONCRETE 055 mortar enable also to make structural imprints, e.g., of a board, by means of patterns. The product is available in both white colour and in a full Kreisel colour palette: Color Design, Trendy. After hardening, the concrete layer is water- and freezeproof, being also highly adhesive and resistant to weather factors

Properties

- Perfect imitation of architectural concrete
- To structures, such as travertine, marble
- For imitation bricks and boards
- Indoor use
- For facades
- Flexible
- Impact resistant
- Waterproof
- Frost-resistant
- Rich color palette

Application procedure

Technical data

Item number	34289
Packaging	
Quantity per unit	15 kg/unit
Unit per pallet	33 unit/Pal.
Grain size	0-0,5 mm
Colour	coloured
Consumption	approx. 2,5 kg/m²
Water vapour permeability	V2 - medium
Tensile adhesive strength	≥ 0,3 MPa
Processing time	20 min

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Material base

- Mineral fillers
- Modifying additives
- Pigments
- Polymers
- Additives

Application conditions

Apply at temperatures from +5 °C to +25 °C, these temperatures apply to air, bed and product. All substrates shall be bearing, compact, stable, even and clean Plastering process shall be started after a period of settlement, shrinkage and desiccating of walls and concrete elements. Substrates suitable for plaster layers shall be durable, rigid, not susceptible to deformation nor have signs of moisture. In the case of concrete substrates, they shall be deprived of any anti-adhesive agents or oils used in formwork tasks.

Surface

The colour of priming agent shall be selected appropriately to match thinned plaster colour. Substrate drying time period shall not be shorter from 24 hours. In case of thinned plaster application onto mesh-reinforced substrate in building wall insulation systems and on compact lime-cement plasters, the surface shall be primed with TYNKOLIT-T 330 or TYNKOLIT-U 340 agent. The colour of priming agent shall be selected appropriately to match the applied plaster colour. The agent shall be applied with a brush or a paint roller and left to dry for a minimum of 24 hours.
Concrete: Prime with TYNKOLIT-T 330 or TYNKOLIT 340
Cement-lime plaster: Prime with TYNKOLIT-T 330 or TYNKOLIT 340
Gypsum plasters: Prime with TYNKOLIT-T 330 or TYNKOLIT 340
Gypsum plasterboards: Prime with TYNKOLIT-T 330 or TYNKOLIT 340
Reinforcing layer in the thermal insulation system: Prime with TYNKOLIT-T 330 or TYNKOLIT 340

Preparation

Plaster mortar shall thoroughly be mixed prior to application, while checking colour compliance with order requirements. When colour plasters are used, it shall be necessary to apply plaster mortar from one production batch on one facade or on each separate surface area. The plaster mortar shall not be thinned with water or mixed with other materials.

Application procedure

Ready-made plaster mortar shall be applied with a stainless steel long float to layer thickness, resulting from the type of plaster surface texture. In case of architectural concrete, the plaster is applied in two layers: the first layer is applied to thickness of approx. 1–1.5 mm. This layer, immediately after application, shall be pressed with a long float or a trowel (to expand plaster). After this activity, the applied plaster shall be left for approx. 1 to 3 hours (depending on air temperature and humidity) to dry. This structure can also be obtained with a paint roller by smoothing fresh plaster mortar. 1–2 mm, once the mortar dries slightly you can float finish the substance and smooth it with a steel Venetian float (a float with a thicker and more rigid sheet). The effect of pitting can be made by not smoothing some areas with the float. The thickness of pitting effects depends on the thickness of applied plaster layer. Once the layer is dry (6–24 h), the obtained plaster can additionally be (burned), while smoothing it with a Venetian float. Anchor footprints can be impressed in fresh plaster, e.g., with a pipe. In order to obtain gloss shining effect on plaster surface, it can be coated with HYDROMUR-W 1010, a hydrophobising agent, to complete saturation. The plaster mortar is also suitable to be applied in other structures, using various tools, such as rollers, stainless steel trowels, plastic floats, as well as sponges, clothes, brushes, spoons, bottles, etc. While performing works and during drying process, protect from frost, rainfalls, too high temperatures and strong winds. One production batch should be used in one element or on one facade in order to avoid color differences. Process a surface in a continuous manner, applying the wet on wet method to avoid visible lines.

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Hazard statements

Please, refer to the Safety Data Sheet for detailed guidance. Please, read and understand its contents before use.

Storage

The mortar can be stored for up to 12 months from production date in sealed packaging and at temperatures, ranging from +5 °C to +25 °C. The storage area shall be kept out of the reach of children, protected against direct sunlight and located far from heat sources and naked flames. It can be transported by any means of transport, at a temperature not lower than +5 °C. It is not subject to ADR provisions.

Label

General information

This data sheet invalidates all previous editions. The information in this technical data sheet corresponds to our current knowledge and practical application experience. The information has been prepared carefully and conscientiously, but without guarantee for accuracy, timeliness, and completeness, and without liability for further decisions of the user. The information alone does not establish any legal relationship or other ancillary obligations. They do not absolve the customer from the obligation to independently verify the suitability of the product for the intended use. Technical values refer to the base products. Deviations from the technical specifications may occur due to tinting and coloring. The specified values are average values. For coating substrates not described here, it is necessary to consult with us. Color tones may slightly vary in repeat orders or compared to the color chart, if necessary, a sample area should be created on-site. Information on drying and waiting times applies under laboratory conditions (+20°C/65% relative humidity) and may change depending on the site situation.
All technical data listed in this product specification has been determined under laboratory conditions.