

TECHNICAL DATA SHEET

SILIKON PROTECT 031

Nano-silicone render



Areas of application

Ready-to-use, dyed plaster mortar on the basis of nano-particle silicone resin Thin-layer finishing coats for indoor and outdoor applications. Incorporated in the TURBO-SO PROTECT and TURBO-WSO PROTECT thermal insulation systems by KREISEL. Plaster with a structure up to 2mm is also suitable for mechanical application. 0.5mm grain plasters are suitable for making imitations of bricks and boards with plaster templates. After drying, creates a hydrophobic, elastic and durable layer. After drying, the plaster offers self-cleaning properties, thanks to which it is more resistant to biological overgrowth.

Properties

- Water-repellent
- Flexible
- Vapor-permeable
- Rich colours
- Waterproof
- Frost-resistant
- Self-cleaning properties
- Resistant to thermal stress
- Resistant to biological overgrowth
- UV resistant

Application procedure



Technical data

Item number	32483	32374	22567	22568	27022
Packaging					
Quantity per unit	25 kg/unit				
Unit per pallet	33 unit/Pal.				
Grain size	0-0,5 mm	0-1 mm	0-1,5 mm	0-2 mm	0-3 mm
Plaster structure	Dashed				
Consumption	approx. 2 kg/m ²	1,6 kg/m ²	2,3 kg/m ²	3,5 kg/m ²	5 kg/m ²
Hardening time	approx. 48 h				
sd-value	≤ 0,19 m				
Processing time	20 min				

SILIKON PROTECT 031

Nano-silicone render

Material base

- Reinforcing fibres
- Mineral fillers
- Pigments
- Polymer dispersion
- Silicone resin
- Additives

Application conditions

Apply at temperatures from +5°C to +30°C; these temperatures refer to the air, substrate, and product.

Surface

Prime the groundwork with TYNKOLIT-U 340 at minimum 24 hours before the application of plaster. Symptoms of biological aggression should be eliminated. Highly absorbent, dusty substrates should be primed with GRUNTOLIT-W 301 or EXPERT 6 before applying a TYNKOLIT-type primer. Groundwork must be cleared from dust, grease, anti-adhesive solutions, paint residue, mold, algae, moss, etc., free from cracks and saline efflorescence. Reinforcing layer in the thermal insulation system: Prime with TYNKOLIT-U 340

Cement-lime plaster: Prime with TYNKOLIT-U 340

Gypsum plaster: Prime with TYNKOLIT-U 340

Gypsum plasterboards: Prime with TYNKOLIT-U 340

Concrete, reinforced concrete: Prime with TYNKOLIT-U 340

Preparation

Ready-to-use product. Do not dilute with water or mix with other materials. Mix thoroughly before use. Before applying, check if the color matches your order. Products marked with a sticker with the inscription: Base B or Base C or Base D are semi-finished products intended for further coloring. In order to obtain appropriate color intensity, good coverage and avoid color differences, they require pigmentation. Using them without pigments is not allowed. Slight color deviations from the sample are possible. For large areas and critical color tones, a test should be carried out after drying to check the color match of the paint. Under real conditions,

due to the drying rate, the type of substrate and the application technique, these colours may slightly differ from those shown in the colour charts.

Application procedure

Apply the plaster on the substrate with a trowel of stainless steel to be as thick as a grain, afterwards - excess must be removed with the same trowel. Finally, rub with a trowel of plastic. While performing works and during drying process, protect from frost, rainfalls, too high temperatures and strong winds. The use of scaffolding covers is recommended. In order to balance the color and structure of the plasters, it is recommended not to empty the bucket completely with the plaster mass during application, but to add half of it with fresh mass from the new bucket after emptying and to mix both parts carefully.

Use the entire set of products in the thermal insulation system. On one surface, apply plaster from one production batch only. Process a surface in a continuous manner, applying the wet on wet method to avoid visible lines. Properly dyed substrate shall be recommended under colour plasters, especially plasters with scratched structure. Falling fogs, when the coating is not dry enough, work as a raining drizzle and may cause patches and discolourations. Intense colours with light reflectance value $Y < 25\%$ should be used on small surfaces of facades. Their use on entire surfaces results in accelerated ageing of coating due to intense heating and high thermal stress. Clean tools with clean water immediately after finishing work. In the case of mechanical application, apply on the earlier prepared bed using a unit or gun until the bed is appropriately covered with the plastering mass. Way of application (in strips or using circular movements) is dependent on the type of unit. For spray application, a machine such as the Graco RTX 5500 can be used, with a 4.5 mm nozzle (for 1.5 mm render grain size) or a 6.0 mm nozzle (for 2.0 mm render grain size). Apply at a pressure of 2–3 bar.

Hazard statements

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

SILIKON PROTECT 031

Nano-silicone render

Storage

Indoor storage in cold freezing-free conditions, in well-closed packages. Protect from direct sunlight. Shelf time of 18 months, protected from atmospheric influences

Label

