

REC TOP 1006

HIGH CHEMICALLY RESISTANT SPECIAL MORTAR IN THE AREA OF PH 0-8

DESCRIPTION

REC TOP 1006 is three-component, highly chemical resistant, silicate and polymer-based special mineral mortar for waterproofing horizontal and vertical areas which require very high acid resistance in the range of pH 0 – 8. Suitable for dry substrates, easy to apply.

PRIMARY APPLICATIONS

REC TOP 1006 is intended for protecting horizontal and vertical areas on all mineral substrates such as e. g. concrete, masonry, cementitious plaster, in moist and wet areas, in areas which are exposed to high chemical stresses due to acids and for heavy duty corrosion protection.

FEATURES/BENEFITS

REC TOP 1006 is a special mineral mortar on polymer- and silicate- base with high resistance to acids. The fully cured mortar possesses a high compressive strength and is abrasion resistant.

TECHNICAL INFORMATION

Basis Powder comp.	Cement free powder mix made of sand and an organic additives
Polymer comp.	Polyurethane pre-polymer
Silicate comp	Water-based silicate solution
Max. grain size	0.4 mm
pH-value silicate comp	approx. 11
Field of application	pH 0 bis 8
Pot life at 15 °C	20 min
Density (mixture)	1.9 g/cm ³
Compressive strength (24 h)	> 5 N/mm ²
Compressive strength (7 days)	> 15 N/mm ²
Flexural tensile strength (7 days)	> 5 N/mm ²
Long term resistant to	Damaging salts, oils, fats, acids (up to pH 0)

DIRECTIONS FOR USE

SUBSTRATE

The mineral substrate must be dry, level, clean and sound and solid. Substances which inhibit the adhesion such as e. g. bitumen, paint, oil, dust, cement slurry etc. must be removed mechanically. Damaged concrete must be milled down to the sound and solid concrete substrate. Minimum adhesive tensile strength to the substrate must be 1.5 N/mm². Substrates which have been damaged by acids must be milled until the undamaged substance of the substrate is reached.

APPLICATION

The resin component and the silicate component are mixed in a clean bucket (which has sufficient volume for the total packaging amount) using a slow rotating mixing device until the mixture has a homogeneous consistency. A homogeneous consistency is reached when the liquid becomes caramel-coloured. This should be the case after approx. 20 seconds of mixing. The pot life starts when the two liquids have been mixed together. Now swiftly mix the powder component into the prepared resin/silicate mixture while continually operating the mixing device. Attention: Maximum mixing time: 3 minutes. Longer mixing times will reduce the pot life.

All waterproofing and protective coatings have to be applied in at least two coats. Preparative measures such as primers, key coats etc. do neither contribute to the effective coating thickness nor do they count as one of these coats.

First coat: Apply the **REC TOP 1006** mixture as a first coat to the substrate using a suitable toothed trowel or spatula (6 mm) to obtain the desired average thickness (ridges should be approx 3 mm). The first coat is applied so that a horizontal comb pattern is produced. It is left to cure for a minimum of 1 hour to assure sufficient hardening. Quality control: use a stop watch to ensure that stale or expired material is discarded and not applied. Never add water to stale material. Use a thickness gauge in suitable intervals to ensure that the correct material thickness has been reached.

The second coat is applied after the first coat has cured to a hard incompressible comb structure.

Second coat: Apply the **REC TOP 1006** mixture on the cured first coat and smoothen. The ridges of the first coat will then be an indication of the min. thickness applied. The total coating thickness has to be min. 3 mm. The surface finish of the second coat must be smooth and free of pinholes and or gaps. The max. waiting time between application of the first and the second coat should not exceed 24 hours. Optical repairs and touch up should be made within 24 hours. Protect the fresh **REC TOP 1006** from moisture and / or chemical exposure for at least 24 hours. After a curing time of 72 hours, brush or spray on protective coat (Consumption: 200 g / m²). After another 7 days of curing time, the coating can be exposed to stresses.

For the installation of fillets (e. g. when coating tanks), REC Repair Mortar Plus must be used. The surface of the applied coating made of **REC TOP 1006** must only be smoothed by pulling a plastering trowel over the surface, not by rubbing in a circular motion with a float. **REC TOP 1006** is cement free; do not add water under any circumstance. Cured material cannot be stirred up again.

If **REC TOP 1006** is applied using a suited spraying device temperature should be below 25 °C.

CONSUMPTION

Approx. 1.9 kg / m² per mm layer thickness

CLEANING

Clean tools immediately after use with water.

PACKING

REC TOP 1006 is 30,75 kg combipackage: powder component: 24 kg bag, silicate component: 5.5 kg jerrycan, polymer component: 1.25 kg jerrycan

STORAGE

Store the material in a dry environment. In originally sealed packages, the material can be stored for a minimum of 6 months.

HEALTH & SAFETY

Silicates act acidic when coming in contact with skin, eyes or mucous membranes. The resin component contains iso-cyanites and is hazardous to health. Wear tightly closed protective goggles, solvent-resistant and solvent-proof gloves as well as long sleeved protective work cloth.

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