

RENOVATING (WALLS WITH SALT EFFLORESCENCE)

MINERALIT RESTAURO TU

Renovation universal mortar



MAIN ADVANTAGES

- For the renovation of walls with efflorescence and moisture
- High ability to absorb harmful salt
- Hydrophobic and frost-resistant
- White with a fine-grained texture
- Extended processing time
- Very high porosity
- Plastic and easy in application consistency
- High adhesion to substrates
- For manual and machine processing

AREAS OF APPLICATIONS

It is used for manual or machine application of renovation top coat on walls with saline efflorescence inside and outside buildings (above the ground level). It is applied as the top coat of 2-layer (TB + TU) or 3-layer (TB + TW + TU) renovation renders with MINERALIT RESTAURO products. It makes up a coat of high pore volume due to which it may absorb large amounts of harmful saline formed in the wet walls. It characterises with high adhesion to a substrate and it may be applied in the form of thick layer and, what is important in renovation, the thickness may be very differentiated on the wall surface. It is especially recommended for renovation of historic buildings, to be used on walls with high and medium salinity.

TECHNICAL SPECIFICATION

Base binder: a mixture of hydraulic binders;

Volumetric density: approx. 1.25 g/cm³;

Mixing ratio: ca. 5.0-5.5 l of water per 25 kg of mortar;

Shelf life after adding water: max. 1.5 hours;

Open time: ≥ 45 minutes;

Colour: white;

Consumption: ca. 1.1 kg/m² per each 1 mm of the layer thickness;

Usage: out of one 25 kg bag we can obtain ca. 23 litres of ready-to-use mortar after adding the required amount of water;

Temperature of application (air and substrate): from +5°C to +25°C;

Mortar type according to PN-EN 998-1: R (renovation)

Compressive strength: cat CS II;

Water penetration: < 5 mm;

Water absorption after 24 h: > 0.3 kg/m²;

Adhesion: ≥ 0.2 N/mm² - FP: A, B or C;

Heat conductivity coefficient: λ ≤ 0.33 W/m*K for P=50%, λ ≤ 0.37 W/m*K for P=90%;

Reaction to fire: class A1;

Water vapour permeability coefficient: μ ≤ 9;

Packaging: Disposable paper packaging containing 25 kg of product.

Storage: The product should be stored in its original sealed packaging, in a dry room, and should be protected from moisture and frost.

Note: The product must be kept out of the reach of children.

Shelf life: 12-month shelf life from the date of production (this is printed on the side of the packaging), provided that the storage conditions are observed. It is recommended to use the product within 6 months.

APPLICATION METHOD

SUBSTRATE PREPARATION: Apply to a sound/stable substrate (without scratches and cracks) degreased and dry. Any loose layers not bound to the substrate (i.e. loose render or flaked coatings) or substances which reduce adhesion should be removed. Old and/or dirty substrates should be washed off and degreased with water and CLEANFORCE cleaning agent. If required by the substrate, it is necessary to apply MINERALIT RESTAURO TB cement key coat, covering not more than 50% of its surface. Corroded and saline joints to be removed to the depth of at least 2 cm. The substrate before the use of renovating renders should be protected against further salt efflorescence by using an appropriate mechanical and/or chemical insulation.

MORTAR PREPARATION: Pour the contents of the packaging into a container with a measured amount of clean and cold water (5.0÷5.5 l per 25 kg of mortar) and thoroughly continuously mix (with a low-speed mixer fitted with a basket stirrer) until homogeneous mixture is obtained. Then, leave the mortar for ca. 5 minutes to mature. Before application, the product should be thoroughly mixed. Depending on the temperature and air humidity, the ready to apply product may be used for ca. 1.5 hours. **Note:** Both too long and too intensive mixing may lead to excessive air entrainment of the mortar and, consequently, lowering its strength parameters.

APPLICATION: With the manual method of application, it is necessary to put mortar on the wall with a steel trowel and smooth it with a plaster patch. After initial setting, the product applied should be spread with a trowel padded with a sponge or felt. If large areas are concerned, it is recommended to use a plastering/rendering machine. The recommended thickness of one layer of mortar is within the range from 15 to 25 mm. As a top coat for painting, it is possible to use MINERALIT T mineral thin coat render, or KOMBI FINISZ mineral levelling/finish render, or to paint directly MINERALIT RESTAURO TU top coat. **Note:** The product is alkaline, therefore, it is necessary to protect eyes and skin. Safety clothing (PPE) must be worn while carrying out any installation work. In case of contact with eyes, immediately rinse them thoroughly with plenty of water. If irritation develops, seek medical assistance.

DRYING: Top coat applied on the substrate may be subject to further processing, assuming one day of drying for each 1 mm of the render thickness (while drying at the temperature of +20°C and air relative humidity of 65%). **Note:** Setting time may be longer due to low temperatures and high relative humidity. Protect the fresh mortar against precipitation until complete setting and binding is obtained.

USEFUL HINTS: To be applied on dry days at temperatures between 5-25°C and the substrate temperature above +5°C. Application during direct sun exposure or in strong winds is not recommended. To protect mortar against inclement weather conditions, scaffolding should be covered with some protective netting. All tools should be cleaned with water after work is completed. **Note:** If paint coating is applied on the renovation top coat, it is necessary to paint its surface twice with CALSILIT F silicate paint or NOVALIT F polysilicate paint. Painting may be started only after the top coat surface sets (hardens) completely and after applicable primer is used. Special attention to be paid to adequate drying conditions of the applied top coat.