

### RENOVATING (WALLS WITH SALT EFFLORESCENCE)

# MINERALIT RESTAURO TW

Renovation levelling mortar



#### MAIN ADVANTAGES

- For the renovation of walls with salt efflorescence and moisture
- Very high ability to absorb harmful salts
- Extended processing time
- Very high porosity
- High adhesion to difficult substrates
- High vapour permeability
- For manual and machine processing

#### AREAS OF APPLICATIONS

It is used for manual or machine application of renovation top coat on walls with salt efflorescence inside and outside buildings (above the ground level). It is used as a layer which absorbs dissolved salts while applying three-layer (TB + TW + TU) renovation top coats with MINERALIT RESTAURO products. It makes up a coat of high pore volume due to which it can absorb large amounts of salt formed in wet walls. It features a short setting time and a high level of adhesion to hard substrates, it is not especially sensitive to differentiated level of wall absorptivity (e.g. in the event of wide joints in walls made of stone). It is especially recommended for renovation of historic buildings. To be used on walls made of stone and bricks of high and average salinity.

#### TECHNICAL SPECIFICATION

**Base binder:** a mixture of hydraulic binders;

**Volumetric density:** approx. 1.2 g/cm<sup>3</sup>;

**Mixing ratio:** ca. 5 - 6 l of water per 25 kg of mortar;

**Shelf life after adding water:** ca. 1 hour;

**Open time:** ≥ 30 minutes;

**Colour:** light grey;

**Consumption:** ca. 1.1 kg/m<sup>2</sup> per each 1 mm of the layer thickness;

**Usage:** out of one 25 kg bag we can achieve 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:** LW (light)

**Compressive strength:** cat. CS II;

**Water absorption:** cat. W<sub>0</sub>;

**Water vapour permeability coefficient:** μ ≤ 9;

**Adhesion:** ≥ 0.2 N/mm<sup>2</sup> - FP: A, B or C;

**Heat conductivity coefficient:** λ ≤ 0.34 W/m\*K for P=50%, λ ≤ 0.38 W/m\*K for P=90%;

**Reaction to fire:** class A1;

**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 and clean substrate (without scratches and cracks), degreased and dry. Present old or damaged render should be completely removed within min. 80 cm from the moisture border or saline efflorescence. The wall to be thoroughly clean with a wire brush. 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, 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 removed render containing saline should be immediately eliminated. The substrate before the use of renovating mortars should be protected from further salinity by means of applicable mechanical and/or chemical insulation. Very absorbent substrates before applying mortar should be moisturised with water.

**MORTAR PREPARATION:** Pour the contents of the packaging into a container with a measured amount of clean cold water (5÷6 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 mixed again. Depending on the temperature and air humidity, finished mortar may be used for application for ca. 1 hour. **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 manual application, it is necessary to put mortar on the wall with a steel trowel and even it with a plaster patch. After initial setting, the product applied should be spread with a trowel padded with a sponge or felt. If the universal MINERALIT RESTAURO TU renovating mortar will be the next layer, the surface of coat should only be levelled with a plaster patch. 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 30 mm. **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:** Mortar applied on the substrate may be subject to further processing, assuming one day of drying per each 1 mm of the mortar thickness. (while drying at the air temperature of +20°C and air 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 and +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.