



Tectoria TERMOMALTA

ST3-0221

The mortar is used for the installation of load bearing thermal blocks and for the construction of external walls.



DESCRIPTION

Tectoria TERMOMALTA is a pre-mixed ready-to-use mortar with a low coefficient of thermal conductivity; it is composed of Portland cement, light aggregates and specific additives.

It is CE marked according to the requirements of the EN 998-2 for masonry mortars class M10.

USES

Suitable for :

- brick masonry walls
- blocks in expanded clay

Not suitable for :

- gypsum if not previously treated

WORKS

- Construction of external walls with thermal mortar ([SA130](#))

APPLICATION

| | | | |
|--|-----------------------------|--|---|
| | Manual application | | Workability time of fresh mortar: 90 mins |
| | Mixing water: 8 lt/ 20Kg | | Max thickness per coat: 12-15 mm |

Clean the surface. The supports must be planar, stable, hard, normally absorbent. The bricks must be free from dust or dirt; do not use bricks having traces of oil, wax or grease. When hot and dry the bricks must be moistened. Pour clean water (quantity shown in the table) into the cement mixer, mix for about 5 minutes, until you get a homogeneous mixture; for small quantities mix manually or with a mechanical agitator using the same powder/water ratio.

The mixing time should not indicatively exceed 4 minutes. The blocks must be wet beforehand. Install after placing alignments and leads. Remove excess mortar and keep the masonry clean during assembly.

For a good thermal insulation of the structure it is advisable to carefully fill the horizontal and vertical joints.

Once mixed, the mortar can be used for about 1.5 hours.

CONSUMPTION

10 Kg/m²/cm

PACKAGING

Bag 20 Kg.

STORAGE

Protect from humidity. Store in a dry, sheltered place. Stored in these conditions and in unopened containers, the product remains stable for 12 months.

| Characteristics | Typical data |
|--|------------------------|
| Appearance | Powder |
| Color | Gray |
| Thermal conductivity coefficient | 0,23 W/m*K |
| Application temperature | +5 - +30 °C |
| Max dimension of aggregate EN 1015-1 | 1,2 mm |
| Bulk density of fresh mortar EN 1015-6 | 1000 Kg/m ³ |
| Mechanical compressive strength EN 1015-12 | at 28 days > 10 MPa |
| Flexural tensile strength | at 28 days > 4 MPa |

| Characteristics | Limits EN 998-2 | Typical data |
|--|-----------------|--|
| Elements ratio in weight [%] | Declared value | Binder: 25-35 Aggregates: 65-75 Additives: < 1 |
| Chloride content [%] EN 1015-17 | | ≤ 0,1 |
| Compressive strength at 28 days EN 1015-11 [MPa] | | > 10 |
| Initial shear strength [MPa] in combination with masonry elements according to EN 771 | | 0,15 [Table value] |
| Capillar water absorption EN 1015-18 | | 0,2 |
| Water vapour permeability EN 1745 | | 15/20 [Table value] |
| Reaction class to fire | | A1 |
| Hazardous substances | | See SDS |

WARNING

Product intended for professional use.

Application temperature +5°C ÷ +30°C.

Ready to use product: add water in the indicated quantity.

Do not apply on frozen surfaces that are about to thaw, or with the risk of frost in the following 24 hours.

Avoid the application of the product if it is windy and in full sun. Protect the treated surface from immediate drying.

Do not apply at temperatures below + 2°C or above + 35°C, on sunny surfaces or with imminent rainfall forecast, in windy days or foggy days.

For further information and advice on safe handling, storage and disposal of chemical products, the user must refer to the most recent Safety Data Sheet, containing physical, ecological, toxicological and other data related to safety. All technical data shown in this Technical Data Sheet are based on laboratory tests. Actual measurement data may vary due to circumstances beyond our control. The information and requirements indicated in this Technical Data Sheet are based on our current knowledge and experience and are to be considered, in any case, purely indicative. They cannot guarantee the final result of the applied product and they have to be confirmed by exhaustive practical applications; therefore the user must test the suitability of the product for the intended application and its purpose. Users must always refer to the

latest version of the local technical data sheet related to the product

TECHNICAL SPECIFICATIONS

LV130 – Construction of external walls with thermal mortar

Installation of thermal bearing blocks and construction of external walls using thermal mortar after cleaning the supports and bricks. Moisten the brick elements and at the time of application the surface of the masonry must be saturated but without a film of water on the surface.

Once the mortar has been prepared, it is assembled after placing alignments and leads and using a trowel to prepare a continuous layer of Tectoria TERMOMALTA mortar from Kimia S.p.A. or similar product, trimming excess mortar.

For a correct realization of the masonry, to obtain a good thermal insulation of the structure it is advisable to carefully fill the horizontal and vertical joints.

The mortar, CE marked according to the requirements of EN 998-2 for masonry mortars class M10, ready-to-use mortar pre-mixed characterized by a low coefficient of thermal conductivity; It is composed of Portland cement, light aggregates and specific additives and will be prepared and applied scrupulously following the indications given on the Technical Data Sheet supplied by the Manufacturer and must have the following characteristics: mechanical compression resistance EN 1015-12 at 28 days > 10 MPa, tensile strength due to flexion at 28 days > 4 MPa, water absorption by capillary action EN 1015-18: 0.2, fire reaction class: A1.