

Oxal TRR

Mineral heat-insulation render for energy-oriented renovation of historical buildings and half-timbered building structures

Product Properties

- Mineral heat-insulation render
- Especially for historic buildings, free of polystyrene
- Bonding agent: trass-lime
- Mineral lightweight aggregates according to EN 13139 and 13055
- High porosity (> 60 %)
- Can be applied with machines
- Mortar group: T CS I, P I
- Open to water vapour diffusion

Areas of Application

- Mineral heat-insulation render for historical and heritage-protected buildings
- Energy-oriented refurbishment of outside facades
- Insulation of interior walls
- For different types of masonry

Application Notes

Substrate Preparation

If old render is present, first remove it completely. Furthermore, loose particles, dirt, coatings, slurries, dust, bitumen, etc. must be removed. The substrate has to be stable and free from adhesion-reducing substances. Dry or highly absorbent substrates must be especially treated. Very smooth surfaces need a spatter coat.

Processing

Oxal TRR can be applied with common render machines possessing a remixer onto the pre-wetted substrate in a layer thickness of up to 40 mm. If more than one layer is applied, the first layer needs to be horizontally combed through utilizing a notched trowel. After reaching a sufficient strength (minimum 6 days and depending on the environmental conditions), it is possible to apply a second layer. Total thickness of 80 mm is possible.

Depending on the desired surface structure, the surface can be rubbed with a non-absorbent sponge float.

Further Information

For coating it is only allowed to use fine lime render slurry which is adjusted to the strength of the render system. At the earliest, after 9 - 12 weeks the render surface can be painted with a low stress mineral paint system, like e.g. lime wash.

During the curing process, the fresh mortar must be protected against fast dehydration (sun, wind, high temperatures). Moreover, do not work with this product at substrate temperatures lower than 5 °C.



Technical Data for Oxal TRR

| Characteristic | Unit | Value | Comments |
|------------------------|-------------------|---------------|-------------------------------------|
| Grain size | mm | 0 - 2 | |
| Water addition | l | approx. 7 - 8 | per bag |
| Yield | l | 1 kg = 1.9 l | wet mortar |
| Compressive strength | N/mm ² | ≥ 1 | after 28 days |
| Processing time | hours | 1 | at + 20 °C / 65 % relative humidity |
| Processing temperature | °C | + 5 - + 30 | Air- and substrate- temperature |
| Thermal conductivity λ | W/mK | approx. 0.09 | after 28 days |

Product Characteristics for Oxal TRR

| | |
|------------------|--|
| Self-monitoring | DIN EN ISO 9001 |
| Form of delivery | 12 kg paper bag |
| Storage | Can be stored in original unopened packs for at least 12 months under frost-free and dry conditions! |

Note: The information on this data sheet is based on our experiences and correct to the best of our knowledge. It is, however, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendations of our employees which differ from the data contained in our information sheets are only binding if given in written form. The accepted engineering rules must be observed at all times.

Edition 07/15. Some technical changes have been made to this print medium. Older editions are invalid and may not be used anymore. If a technically revised new edition is issued, this edition becomes invalid.