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muro Therm Lightweight Adhesive and Reinforcement Mortar Premium G

Product description:

muro Lightweight Adhesive and Reinforcement Mortar Premium G is a high-yield, water-repellent mineral dry mortar, factory-produced on the basis of white cement. It can be felted easily.
Mortar group P II according to DIN V 18550, CS III according to DIN EN 998-1.

Composition:

muro Lightweight Adhesive and Reinforcement Mortar Premium G consists of graded and dried carbonate or silicate natural sands, white cement, hydrated lime, mineral lightweight silicate aggregate, and additives for improved workability, adhesion and water repellency.

Application:

muro Lightweight Adhesive and Reinforcement Mortar Premium G is suitable for bonding organic insulation boards (e.g. EPS) and mineral insulation boards (e.g. mineral wool boards), as well as for embedding muro reinforcement mesh on insulation boards, especially for muro external thermal insulation composite systems (ETICS). It is also suitable for refurbishing sound existing renders or appropriately pretreated old renders, cracked rendered facades, or as a bonding bridge on smooth concrete surfaces, ribbed and rough XPS boards (Styrodur), wood-wool boards etc. for the subsequent application of lime, lime-cement or cement renders. muro Lightweight Adhesive and Reinforcement Mortar Premium G is also suitable for plinth areas.

Quality control:

All our products are subject to continuous internal and external monitoring in our own laboratory. The above information is intended as guidance and is based on the best knowledge currently available. However, no liability can be accepted for the general validity of individual recommendations, since application and processing methods are outside our control and the varying condition of substrates requires assessment in accordance with professional and trade practice. The applicable standards, approvals and guidelines must always be observed. Our technical advisory service is available for all further technical questions.

Please observe the processing instructions on the reverse side!

Technical Data

Water demand	approx. 7.5 - 8.0 l/bag
Yield	approx. 1100 l/t
Adhesive tensile strength	> 0.08 N/mm ²
Capillary water absorption	Wc2 according to EN 998-1
Material consumption	Grain size: 1.0 mm Bonding: approx. 3.5 kg/m ² approx. 7.0 m ² /bag 20 kg/bag Reinforcement: approx. 3.9 kg/m ² * approx. 6.4 m ² /bag* 20 kg/bag *at an application thickness of 5 mm
Compressive strength	approx. 3.5 - 7.5 N/mm ²
Water vapour diffusion resistance factor μ	5/20 (tabulated value EN 1745)
Reaction to fire	A2
Thermal conductivity	≤ 0.25 W/mK (P=50%)
Storage	dry, protected from moisture
Packaging	20 kg, paper bag

All technical data refer to laboratory conditions at 20°C / 65% relative humidity.

Substrate:

The substrate must be clean, dry, solid and load-bearing, and free from efflorescence and film-forming release agents. The render substrate must be carefully checked for load-bearing capacity. Carry out a pull-off test on critical substrates. Remove loosely adhering render and/or paint residues. Insulation boards with a foam skin (predominantly XPS boards) must be roughened over the entire surface and brushed off.

Processing:

muro Lightweight Adhesive and Reinforcement Mortar Premium G can be processed with all commercially available plastering machines, continuous mixers or by hand. For manual processing, mix the contents of the bag with approx. 7.6 - 8 litres of clean water and stir with a paddle mixer until lump-free and to a workable consistency. After a short maturing time, stir again and adjust with additional water if necessary.

Bonding insulation boards: Depending on the ETICS system variant, the adhesive mortar is generally applied to the insulation boards using the bead-and-dab method or over the full surface. Alternatively, muro Lightweight Adhesive and Reinforcement Mortar Premium G can also be applied over the full or partial surface of the substrate (observe the respective system approval!). Immediately after applying the adhesive, place the insulation boards tightly butted together and press them firmly onto the substrate with a floating movement. Ensure true alignment and plumb installation so that a smooth, even facade surface is achieved. Do not allow adhesive into the board joints.

Reinforcement / skim coat: Apply muro Lightweight Adhesive and Reinforcement Mortar Premium G evenly to the insulation boards and embed the muro reinforcement mesh suitable for the system (fine or coarse), taut and free of folds. Mesh joints must overlap by approx. 10 cm. After embedding, completely cover the mesh wet-on-wet with muro Lightweight Adhesive and Reinforcement Mortar Premium G. The mesh must lie in the outer third of the reinforcement layer. The total reinforcement thickness should be between 3 and max. 5 mm. Before applying muro finishing render, allow a standing time of at least 1 day per mm of application thickness. All thin-layer mineral decorative renders may be used as finish coats without prior priming of the substrate.

Clean tools with water immediately after use. The open time of the material is approx. 20 minutes, depending on substrate and room temperature.

Important information:

Freshly applied render must be protected by suitable measures against excessively rapid water loss due to sun, wind and high temperatures, against driving rain and against frost. High humidity and low temperatures can considerably extend the setting time. Do not apply at air or substrate temperatures below +5°C, or when night frost is expected. Cover and mask vulnerable areas (glass, ceramics, metal, etc.) before processing. The application of render is governed by DIN EN 13914, DIN V 18550 and DIN 18350, VOB Part C. muro Lightweight Adhesive and Reinforcement Mortar Premium G is especially suitable for insulation systems with PU and phenolic resin insulation boards. It can also be used for full-surface mesh skim coating on base renders when producing thin-layer finish renders with a grain size below 2 mm (according to VOB Part C, below 3 mm), on mixed-masonry substrates, on weather-exposed elevations or for brushed and felled surfaces. See also the "Guidelines for Rendering Masonry and Concrete".

Storage:

Store dry and protected from moisture. Shelf life: 12 months.

Safety advice:

muro Lightweight Adhesive and Reinforcement Mortar Premium G contains lime and white cement and therefore reacts alkalinely with moisture. Risk of serious eye damage. Keep out of reach of children. Do not breathe dust. Avoid contact with skin. In case of contact with eyes, rinse immediately and thoroughly with water and consult a doctor. Wear suitable protective gloves and safety goggles / face protection when working. If swallowed, seek medical advice immediately and show the packaging or label. The EC Safety Data Sheet must be observed.

Disposal:

Only completely emptied bags (free-flowing, without residue) may be sent for recycling. Dispose of hardened material residues as construction rubble or construction-site waste.

Hazard statements:

H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321 Specific treatment (see this label).
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Note:

The information in this data sheet is based on our in-house investigations and tests as well as practical experience. However, our processing instructions are non-binding due to differing site conditions. We recommend that users familiarize themselves with the products and techniques concerned by carrying out a trial before starting work. This technical data sheet becomes invalid when a new edition is published.



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