

Pura thermal insulation plaster

[Pura Wärmedämmputz]



mineral, moisture-regulating interior insulation plaster

Areas of application:

- as thermal insulation plaster for interior walls and ceilings
- as PCM plaster for living spaces, old buildings and renovation

Characteristics:

- regulates living climate and humidity
- breathable, capillary-active
- non-flammable (A1)
- heat-insulating
- prevents formation of condensation and mould
- natural, purely mineral (perlite based), without plastic additives

Technical data:

- Material: Lime/Perlite base
- Coverage: approx. 15 litres water and 50 litres thermal insulation plaster results in approx. 35 litres wet mortar with the following coverage:
 - approx. 1.8 m² surface with 20 mm plaster thickness
 - approx. 1.2 m² surface with 30 mm plaster thickness
 - approx. 1 m² surface with 35 mm plaster thickness
- Layer thickness: **at least 20 mm** (max. 30 mm per layer)
- Water absorption coefficient: $> 3 \text{ kg/m}^2\text{h}^{0.5}$
- Construction material class: A1
- Bulk density: approx. 295 kg/m³ (dry)
- Pressure resistance: 1.6-3 N/mm²
- Bending strength: 0.8 N/mm²
- Modulus of elasticity: 2000 N/mm²
- Thermal conductivity: $\lambda = 0.077 \text{ W/(mK)}$ (calculated value)
- Water vapour diffusion resistance: $\mu = 6$

Instructions for use:

Completely remove any old, non-supportive plaster and remove loose plaster and mortar residues. Dust the substrate and liberally pre-wet it; repeat before applying further layers of plaster. To improve the load-bearing capacity of the substrate, apply "**Secco Quick Rough Plaster**" ["**Secco Spritzbewurf schnell**"]: for brickwork and aerated concrete, pre-spray the entire surface – for old buildings, 50-70% of the cover area can be covered in "**Secco Quick Rough Plaster**" ["**Secco Spritzbewurf schnell**"]. If it is not clear what the substrate is, such as mixed masonry in combination with wood/concrete, a plaster base is recommended.

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50 litres of **Pura thermal insulation plaster [Pura Wärmedämmputz]** is mixed with approx. 15 litres of clean water for a maximum of 5 minutes with a swizzle stick in a compulsory or free fall mixer. The plaster can then be applied by hand or with a plastering machine to the prepared plaster base at a thickness of at least 20 mm, before levelling and scraping. For plaster thicknesses over 30 mm, apply in wet in moist layers in several stages (up to 30 mm per layer). The processing time is **max. 4 hours**. If a plaster base is used, ensure that the first layer is pressed into the plaster base after application. After hardening, any further layers can be applied wet in moist. Roughen the lower layer with a brush. After the mortar has stiffened, any burrs, unevenness, etc., must be removed with the grid robot. The final layer can be finished after setting (approx. 1 day) using the grid or sponge board and plenty of water. During the setting time, make sure that the room is well ventilated. After sufficient resting time, especially in the case of timber framing and unclear substrates, the redstone leveling compound [**Spachtelmasse**] must be applied with **plaster mesh 165 [Putzgewebe 165]** as an approx. 3 - 4 mm thick reinforcement layer. A surface finish with **Luno Lime Smooth Finish [Luno Kalkglätte]** or **Luno lime fine plaster [Luno Kalkfeinputz]** can then be applied.

Notice: The high capillary and diffusive properties of **Pura thermal insulation plaster [Pura Wärmedämmputz]** must not be impaired by coatings that create a barrier!

Note on processing with plastering machines:

A commercially available plastering machines (e.g. G4) equipped with an insulating plastering device can be used for machine processing:

Before connecting to the machine, fill the hose with 2-3 litres of mixed, commercially available wallpaper paste to optimise the flow of the plaster and brighten the material. Start up the plastering machine with approx. 450 l/h (sight glass). The amount of water supply can vary between 300 and 500 l/h. Check the consistency of the plaster when it leaves the machine before connecting the hose and adjust the water supply accordingly. If taking a break of longer than 15 minutes, allow the machine to run for approx. 10 seconds without a dry material supply! Care must be taken to ensure that the material **does not** clump together in the "dry/wet" transition area. Recommendations made by the plastering machine manufacturer must be observed to achieve optimum results.

Disposal:

Hardened plaster residues can be disposed of together with normal building rubble.

Storage stability:

Store in a dry, frost-free condition in the sealed original container. Shelf life of at least 9 months.

Dimensions/Form of delivery/Article No.:

50 l bag; item No.: FS50SO

Other:

The requirements of the EC Safety Data Sheet must be adhered to.

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