HASIT
Natürlich besser bauen

TECHNICAL DATA SHEET

HASIT FIXIT 222

Aerogel high-performance insulating plaster

Areas of application

Our innovative, extremely heat-insulating and ecological Aerogel insulating plaster based on NHL lime is suitable for restoration and refurbishment as well as for new construction. HASIT FIXIT 222 is a jointless, heat-insulating base coat on facades and interior walls for application thicknesses of up to 15 cm on load-bearing masonry, old plasters and concrete. Due to its lime base, it is also used indoors and ideal for dimensionless insulation of exterior walls or for mold remediation. The Aerogel high-performance insulating plaster can also be used as a renovation plaster with prior sealing against moisture. Do not use in the base area of the facade.

Properties

- Highly thermally insulating WLF 0,028 W/mK
- Non-flammable
- ETA approval
- Sound-absorbing
- Ideal for the preservation of monuments and historic buildings

Application procedure

Technical data

Item number	2000142736
EAN	4038502157188
Customs Tariff No.	32149000
Packaging	
Quantity per unit	50 L/unit
Unit per pallet	30 unit/Pal.
Grain size	0-1,4 mm
Consumption	approx. 1 L/m²/mm
Consumption instructions	Consumption values are guideline values and depend heavily on the substrate and processing technology.
Yield in litres	50 L/unit
Water consumption	approx. 12,5 L/unit
Reaction to fire	A2-s1, d0

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Item number	2000142736
Water vapour diffusion	≤ 5
Compressive strength	approx. 0,5 N/mm² (28 d) EN 1015-11
Thermal conductivity λD	0,028 W/mK 0,03 W/mK
Minimum plaster thic-kness	30 mm
Mortar class	CS I EN 998-1 Wc1 EN 998-1 T1 EN 998-1
Layer thickness	0-80 mm
System approval	ETA-20/0277
Dry density	approx. 175 kg/m³
Substrate temperature	5-30 °C
Packaging	In recyclable paper bags.

Material base

- Aerogel granulate
- Hydraulic lime
- Light additive (mineral)
- Air lime
- Mineral
- White cement
- Additives to improve processing properties

Application conditions

During the processing and drying phase, the ambient or substrate temperature must not fall below +5 °C and must not rise above +30 °C.During applying and setting process provide frost protection (min. 7 days). High humidity indoors prevents drying. Lime plasters need carbon dioxide from fresh air to set and must be able to release water into it at the same time. Therefore, sufficient fresh air supply must be ensured in poorly ventilated rooms (e.g. fans). Dehumidifiers are unsuitable for the rapid drying of lime plasters that have not yet set (risk of cracking) and must therefore not be used.

Surface

The surface has to be dry, without dust, unfrosted, absorptive, flat, sufficiently rough and bearing as well as without efflorescence and release agents creating a film (such as formwork oil and similar). Substrate testing must be carried out in accordance with DIN 18350. The processing instructions apply to masonry manufactured in accordance with standards and require closed joints. Open masonry joints and blowouts must be sealed beforehand with suitable material. The material must be completely dried out before applying plaster. In the case of critical substrates (such as highly porous masonry, aerated concrete, wood-wool panels, jacketed concrete blocks, XPS-R panels, etc.), the special processing guidelines must be observed.

Surface pre-treatment

After finished testing and surface preparation (closing of the cracks, joints and indentations) and depending on the existing surface, it is necessary to pretreat the surface accordingly. On plaster substrates that do not absorb evenly and on masonry (bricks, lightweight concrete, etc.), a pre-spray mortar, e.g. HASIT HASOLAN® 4 mm/6 mm, not hydrophobic, must be applied (6 mm only suitable for manual application). Concrete and other non-absorbent substrates must be prepared with HASIT 250 RENOPLUS® as an adhesion filler using a notched trowel. The base coat

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must be applied wet-on-wet onto the bonding filler. A plaster base (Bekeart Welnet) is to be applied on old plasters, concrete and critical substrates. When using plaster profiles, the leaflet for the planning and application of metallic plaster profiles in exterior and interior areas of the European Association of Profile Manufacturers must be observed.

Preparation

In hand treatment of plaster material bag should be mixed using a mixer or in a mixer using a given amount of water until reaching a homogeneous compound. Mixing time for manual mixing between 2 and 3 minutes, avoid longer mixing times.

Processing note

Use fresh mortar within 30 minutes. During hardening – especially when using heating devices – good drying and hardening conditions must be ensured (e.g. by shock ventilation). Direct heating of the plaster is not permitted. Drying times before applying a final coating of at least 14 days or 3 days/cm plaster thickness must be observed. This is to be checked again before coating.

Application procedure

For manual processing, apply the mixed material with the trowel or skim it on with the float.
Plaster thicknesses of up to 80 mm can be applied in one layer, for larger or varying plaster thicknesses, the next layer of plaster must be applied after setting (but no later than 24 hours).
The product can be applied with all standard finishing machines or manually.
In machine treatment spray using the standard plastering machine.
After application, smooth it out evenly with a trowel. After setting, rub or “felt” the surface timely, roughen it with a screed for subsequent coatings.
A spiral casing (D8-1,5 = 35 l/min.) adapted to thermal insulation plaster and an insulating plaster mixing shaft must be used.
In order to produce a sufficiently solid surface on the Aerogel high-performance insulating plaster, HASIT PP 201 SILICA LF must be applied to the sufficiently dried substrate before further coating. This step is ideally performed 24 hours before tissue embedding. HASIT PP 201 SILICA LF is diluted with water in a ratio of 1:3 and applied with a roller. The protective layer of insulating plaster is to be applied with HASIT FIXIT 223 Aerogel HDP special embedding mortar and HASIT white reinforcement fabric HDP. All HASIT LITHIN® fine plasters (except HASIT 700 LITHIN® rough finish) can be used as finishing plaster. This is combed in all directions using a 6x6 notched trowel. The hardened mortar webs ensure optimal mechanical adhesion of the finishing plaster to be applied later.

Hazard statements

Please refer to our separate safety data sheets for detailed safety instructions. Read through these before use.

Storage

Store in a dry place on wooden pallets.
Can be stored for at least 12 months.

Label

General information

This technical data sheet substitutes and annuls the previous editions of the same. Time-based values refer to standardised climatic conditions (+20 °C/65 % relative humidity). These can vary due to environmental factors, such as temperature, moisture and type of substrate. The data is processed carefully and conscientiously, however they do not provide a warranty for the accuracy and completeness of the same, nor are they responsible for future decisions of users. These data itself is not based on legal relations or other additional obligations. These data do not release the customer from the obligation to check whether the product is suitable for its intended purpose. Our products, as well as all raw materials contained in them, are subject to continuous monitoring in order to guarantee consistent quality. If you have further questions, please contact your sales advisor or specialist retailer. The current

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status of our technical bulletins can be found on our website or can be requested in the responsible office.
All technical data listed in this product specification has been determined under laboratory conditions.

To avoid drying out too quickly and the associated formation of severe shrinkage cracks, the Aerogel insulating plaster must be kept moist for at least one week. This is done by humidification, sprinkling with water or by using curtains of damp jute.