



267 CalceClima® Thermo

Lime Insulation Plaster

Areas of application:

Jointless, heat-insulating plaster up to 120 mm layer thickness for old and new buildings on facades and interior walls. According to DIN 4102-4, this insulating plaster is suitable for use in fire protection.

As a subsequent insulation plaster protective layer, we recommend HASIT 250 RENOPLUS® or HASIT DIEPLAST 865 MINERAL with our HASIT White Insulation Fabric.

HASIT 840 CalceClima® Thermo corresponds to a thermal insulation plaster mortar according to the technical specification of the Verband für Dämmsysteme, Putz und Mörtel e.V. (Association for Insulation Systems, Plaster and Mortar – VDPM).

All HASIT LITHIN® finishing plasters (except HASIT 725 OPTI LITHIN® Kratzputz opti) can be used as finishing plaster.

We would like to point out that with this product an increased spiral pump consumption is to be expected.

Properties:

- Highly thermally insulating 0.067 W/mK
- ecological
- Promotes healthy indoor climate
- Non-flammable
- Sound-absorbing

Application procedure:



Technical data		
SAP-Art. Nr.:	2000959995	2000959993
Packaging type		
Quantity per unit	30 l/unit	1,000 kg/unit
Granulation	0 - 1.4 mm	
Yield per litre	approx. 27 l/unit	approx. 3,700 l/unit
Consumption	approx. 1.1 l/m ² /mm	
Consumption instructions	Consumption values are guideline values and depend heavily on the substrate and processing technology.	
Amount of water required	approx. 13.5 l/unit	approx. 1,500 l/unit
Layer thickness	20 - 120 mm	
Minimum plaster thickness	20 mm	
Water vapour diffusion μ	≤ 8	
Thermal conductivity λD (EN 12667)	≤ 0.067 W/mK	
Compressive strength (28 d)	≥ 0.4 N/mm ² (EN 1015-11)	
E-module	approx. 1,500 N/mm ²	
pH-value	approx. 10.5	
MG (EN 998-1)	CS I	
MG (EN 998-1)	W1	
MG (EN 998-1)	T1	
Average bulk density	≤ 300 kg/m ³	
Packaging	In recyclable paper bags.	
Reaction to fire	A1	



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Preparatory work:	<p>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).</p> <p>Substrate testing must be carried out in accordance with DIN 18350.</p> <p>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.</p> <p>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.</p>
Material base:	<ul style="list-style-type: none">• Sulphate-resistant binder based on natural hydraulic lime• Romankalk• High-quality crushed lime sand• Mineral• Light additive (mineral)• Additives to improve processing properties• Air-entraining agents• Water-repellent additives
Application conditions:	<p>During the processing and drying phase, the ambient or substrate temperature must not fall below +5 °C and must not rise above +30 °C.</p> <p>During processing and hardening of the material, but at least for 7 days, protect it from the effects of frost and driving rain.</p> <p>High humidity indoors or fog outdoors prevents drying.</p> <p>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.</p>
Surface pre-treatment:	<p>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.</p> <p>Prepare concrete and other non-absorbent substrates with HASIT 250 RENOPLUS® as an adhesive trowel coat using a notched trowel.</p> <p>Before applying the base coat, the adhesive filler must be completely dry.</p> <p>For critical substrates (old buildings) a further Welnet insulating plaster carrier must be used.</p> <p>When using plaster profiles, the data sheet for planning and application of metallic plaster profiles for indoor and outdoor use from the European Association of Profile Manufacturers must be observed.</p>
Preparation:	<p>In the case of manual processing, mix a bag with clean water homogeneously according to the amount of water required by means of a rotor whisk or in a forced mixer.</p> <p>Mixing time for manual mixing between 2 and 3 minutes, avoid longer mixing times.</p>



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For manual processing, apply the mixed material with the trowel or skim it on with the float. When machine processing using a commercially available fine plastering machine, including HASIT spiral casing D4 Pink (also possible: D6-3 Orange, PFT-Twister D6-3), insulating plaster mixing shaft, NW35 wet conveying hose and mortar/spray nozzle 12 mm green or blue, the spraying must be conical.

For wet conveying hose lengths of 10 m and more, we recommend reducing the NW35 wet conveying hose down to NW25 wet conveying hose.

This protects the finishing machine and its components.

Settings related to the mechanical engineering can change during operation due to wear and tear and require constant monitoring. During longer breaks, make sure that the hoses are emptied and cleaned. Higher temperatures also accelerate the hardening process in the hoses (hoses exposed to direct sunlight). The HASIT installation conditions for construction site silos must be met when using a silo.

After application, level with the lath and, if necessary, roughen with the Rabot for subsequent coating after stiffening.

Apply coat thicknesses up to max. 6 cm in one operation.

If thicker layers of insulating plaster are required, the first layer should be roughened with a plaster comb and reapplied after approx. 24 hours at a maximum thickness of 6 cm.

Use fresh mortar within 20 minutes.

During setting, especially when using heaters, good drying and curing conditions (e.g. through shock ventilation) must be ensured.

Direct heating of the plaster is not permitted.

Drying time before applying the final coating: 14 days or 5 days per cm plaster thickness at least.

As a subsequent insulation plaster protective layer, use HASIT 250 RENOPPLUS® or HASIT DIEPLAST 865 MINERAL with our HASIT White Insulation Fabric.

In order to compensate for the absorbency of the insulation plaster before applying the reinforcement layer or to avoid burning, it is advantageous to apply a primer with HASIT PP 201 SILICA LF before applying the insulation protection layer, depending on the environmental conditions.

Before applying the subsequent coating, check that the substrate has completely dried out.

Hazard statements:

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

Certificates:



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 status of our technical bulletins can be found on our website or can be requested in the responsible office.