

Note on English translation / Hinweise zur englischen Fassung

This is a translation of the product data sheet valid in Germany.

All stated details and properties are in compliance with the regulations of the German standards and building regulations. They are only applicable for the specified products, system components, application rules, and construction details in connection with the specifications of the respective certificates and approvals.

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Plaster & Façade Systems

P262.de

Product Data Sheet

2023-04

DP 007

Lime-cement thermal insulation plaster

Product description

Mineral, high yield lime-cement thermal insulation plaster with organic lightweight aggregate (EPS) on all conventional masonry substrates and concrete in interiors and exteriors.

Composition

Hydrated lime, cement, graded limestone grains, organic (EPS) lightweight aggregate, water-retaining and water-repellent additives.

Storage

Store the bags on wooden pallets in a dry environment. The product can be stored for at least 6 months.

Quality

In compliance with EN 998-1, the factory-made rendering/plastering mortar is subject to initial type testing and continuous factory production control and bears the CE marking.

Properties and added value

- Thermal insulating mortar T1 acc. to EN 998-1
- Compressive strength category CS I acc. to EN 998-1
- For interior and exterior application
- With EPS lightweight aggregates
- For machine or hand application
- Thermal conductivity rated value $\lambda_b = 0.07 \text{ W/(m}\cdot\text{K)}$

Field of application

As thermal insulation plaster for mineral-based and paste-like finishing plasters in interiors and exteriors

- As a basecoat with an equalization plaster with Luströ for thin-layer mineral-based and paste-like finishing plasters/renders.

Application

Substrate and pretreatment

Substrate	Pretreatment
Masonry made of brick, pumice and lightweight concrete masonry. Even and normally absorbent lime sandstone masonry	On highly absorbent substrates or in hot summer weather, apply a double plaster layer fresh in fresh
Masonry made of aerated concrete masonry	Apply a double plaster layer fresh in fresh.
Masonry on weakly absorbent to non-absorbent and/or smooth, glossy lime sandstone masonry	Lustro, SM700 Pro, SM700, SM300, Sockel-SM or Der Vorspritzer as a mineral bonding primer
Rough form work concrete, absorbent concrete, masonry with varying suction properties, small format multi-layer wood wool slabs	Lustro, SM700 Pro, SM700, SM300, Sockel-SM or Der Vorspritzer as a mineral bonding primer
Smooth concrete, prefabricated concrete units	Lustro, SM700 Pro, SM700, SM300 or Sockel-SM as a mineral bonding layer
XPS-R insulation boards	Lustro, SM700 Pro, SM700, SM300 or Sockel-SM as a mineral bonding layer
Absorbent masonry made of small format bricks, random rubble walling and mixed brickwork	Der Vorspritzer as a mineral bonding layer (mechanical key)

Mineral bonding layer (with the exception of Der Vorspritzer) should be spread and ruled across the full surface with a widely notched trowel. Wait at least 1 day and a maximum of 3 days before application of further coats.

Preparation

Check the substrate for compliance with VOB part C, DIN 18350, chapter 3.1.1 and express legitimate concerns acc. to VOB part B, DIN 1961 paragraph 4 section 3. Check the plastering substrate by a scratch test, wipe test or wetting test and measure the temperature if appropriate. Clean the substrate of dust and loose parts and remove them ensuring that the surface is smooth. Cover easily-soiled building components before commencement in accordance with Code of Practice "Abklebe- und Abdekarbeiten für Maler- und Stuckateurarbeiten" issued by the Bundesverband Ausbau und Fassade. Protect weather-exposed surfaces from precipitation and direct sunlight.

Substrate pretreatment according to the pretreatment table. All substrates must be stable, dry, even and free of grease and dust as well as free of any residual substances that may reduce the adhesion.

Machines / equipment

PFT mixing pump G 4 mixing shaft for insulation material

- Rotor/Stator Rotoquirl and D7-2.5 required
- Fine spraying cap Ø 14 mm
- Mortar hoses Ø 35 mm
- Wet mortar pumping distance up to 40 m

Mixing

Mixing by hand

Mix the content of one bag with 12 litres of clean water without further additions until an application-ready lump-free consistence is achieved.

Mixing by machine

For mixing pumps, e.g. PFT G 4, set in case of compact consistence to approx. 200 liters, set in case of lean consistence to approx 300 liters.

Caution

The water quantities are approximate values and can vary depending on the mixing pump.

Application

In case of the required total plaster thickness always work with two layers. Spray on the first layer in compact consistence in case of application thicknesses from 20 to 60 mm. Roughen the first layer with a broom after application. Apply the second layer on the following day in a lean consistence approx. 10 to 20 mm thick up to the required total plaster thickness of maximum 80 mm. Work with three layers in case of a required thickness of 80 to 100 mm. Apply the both of the first layers in a compact consistence and the last layer in a lean consistence. Roughen the lower layers after application. Work the last layer directly with a plastic board or after the mortar has hardened, remove the burrs or unevenness with the back of a trowel or a scratching tool for rendering.

Intensive working of the fresh insulating plaster causes bleeding between the substrate and insulating plaster and should be avoided. Clean the machine and hoses with longer breaks / interruptions in application. Do not leave the mortar and water hoses lying in the sun. Do not stir and do not apply material that has started to harden.

Full surface plaster reinforcement

After a drying time of 1 day per cm layer thickness, however after at least 7 days, Lustro is applied as a full surface plaster reinforcement with reinforcement layer in an average plaster thickness of 5 mm on the DP 007. In interiors, Rotkalk Fein can be used as an alternative for a reinforcement layer. Embed additional diagonal corner reinforcement on all building openings.

Plinth application

On lighter and softer wall materials (stones of compressive strength category ≤ 8) in the plinth or splash-water zone and on surfaces in contact with the ground, Sockel Gigamit or Sockel LUP are to be used. On masonry of compressive strength category > 8 and concrete cementitious plinth plaster UP 310 must be used.

The render system must be protected against the ingress of moisture at the connection to the lower edge. The required plaster sealing or the necessary moisture protection must be applied up to at least 5 cm above the edge of the ground line or top edge of the covering. In the lower edge, this is recommended for application up to the existing building sealing. As a plaster seal / moisture protection, apply Sockel-Dicht in a layer thickness of at least 1.2 mm (dry layer thickness min. 1 mm). A protective layer with slip membrane (e.g. fleece laminated dimpled sheet) should be provided on the construction as protection against damage after drying.

On XPS-R, plinth insulation boards, perimeter insulating panels, mineral or bituminous waterproofing of buildings, Sockel-SM Pro (with mesh layer) can be applied as a polymer enhanced cementitious plaster at a total plaster thickness of at least 7 mm. Additional subsequent moisture protection is not necessary. When using Sockel-SM Pro on Sockel Gigamit or Sockel LUP, apply Sockel-SM Pro over the lower plaster stop profile on the existing building waterproof sealing or flanking building material / substrate and overlap by at least 50 mm. Additional subsequent moisture protection is not necessary.

A protective layer with slip membrane (e.g. fleece laminated dimpled sheet) should be placed before the construction as protection against damage after drying.

On plaster bases

On a plaster base applied according to manufacturers instructions, apply about a 60 mm thick coat per layer of DP 007 and level it while pushing it into the plaster base. Roughen the surface with a broom.

On the following day apply a layer up to the necessary or maximum plaster thickness. After a drying time of 1 day per cm layer thickness, however after at least 7 days, Lustro is applied as a full surface plaster reinforcement with reinforcement layer in an average plaster thickness of 5 mm on the DP 007. In interiors, Rotkalk Fein can be used as an alternative for a reinforcement layer. Embed additional diagonal corner reinforcement on all building openings.

Application temperature/climate

Do not apply with air, component and/or substrate temperatures below +5 °C and ensure that temperature does not fall below this temperature until the plaster has hardened sufficiently. Furthermore, the temperature should not exceed 30 °C during application.

In order to prevent rapid dehumidification of the fresh plaster by the exposure to direct sunshine (high surface temperatures), and/or strong wind (danger of cracks, reduction in strength) suitable protection measures / treatment (e.g. protective nets, keeping moist) are required.

Cleaning

Clean the machines and tools with water immediately after use.

Coatings

Finishing plasters

After a drying time of 1 day per cm layer thickness, however after at least 7 days, Lustro is applied as a full surface plaster reinforcement with reinforcement layer in an average plaster thickness of 5 mm on the DP 007. In interiors, Rotkalk Fein can be used as an alternative for a reinforcement layer. Embed additional diagonal corner reinforcement on all building openings. After at least 7 days drying time, thin-layer mineral-based and paste-like finishing plasters with any required substrate treatment can be applied.

	<p>Plaster must be applied according to EN 13914, DIN 18550 and DIN 18350, VOB part C as well as the generally recognized building engineering rules and valid guidelines.</p> <p>With previous application of gypsum plasters or plasters containing gypsum, it is essential that the plastering machine is thoroughly cleaned (wet zone, plaster spiral, rotor, dry zone, gear wheel, hoses: For dry material feed: transfer hood, supply hose, pressure vessel, injection hood, feed manifold).</p>
<p>Notes</p>	<p>DP 007 must be protected with Lustro as a reinforcement basecoat against moisture before the onset of winter. Should the Lusto mesh insert remain exposed on the exterior during the winter without a further coating, we recommend application of a primer such as Grundol Tiefengrund Primer before the finishing plaster is applied in spring.</p> <p>Heating in rooms should only be put into operation in stages. Rapid dehumidification, e.g. using dehumidifiers should be avoided.</p>

Lime-cement thermal insulation plaster

Technical data

Description	Standard	Unit	DP 007
Reaction to fire	EN 13501-1	Category	B1
Graining	–	mm	1.5
Compressive strength	EN 1015-11	Category	CS I
Adhesive strength	EN 1015-12	N/mm ²	≥ 0.08
Failure pattern		–	A, B or C
Capillary water absorption	EN 1015-18	Category	W _c 1
Water vapour diffusion resistance μ	EN 1015-19	–	≤ 15
Rated value of thermal conductivity λ _B at P = 90 %	EN 1745	W/(m·K)	≤ 0.07

The stated technical data were evaluated acc. to the respective test standards. Deviations under site conditions are possible.

More detailed information can be found in the technical specification "Wärmedämm-Putzmörtel", issued by the VDPM e. V.

Material requirement and efficiency

Coat thickness mm	Consumption approx. kg/m ²	Yield approx. m ² /bag
20.0	4.4	2.3
30.0	6.6	1.5
40.0	8.8	1.1
50.0	11.0	0.9
60.0	13.2	0.8

All the data concerned are average values that have been determined under laboratory conditions. Deviations under site conditions are possible.

Product range

Description	Application	Packaging unit	Material number	EAN
DP 007	10 kg	30 bags / pallet	00767498	4003950143182

Sustainability and environment

Short description	Unit	Value
VOC content acc. to RL2004/42/EG	%	Not relevant
VOC content acc. to RL2004/42/EG	g/l	Not relevant
Solvent-free and softener-free acc. to VdL-RL01 (Revision 4)	–	Not relevant



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