

Note on English translation / Hinweise zur englischen Fassung

This is a translation of the technical 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 and Façade Systems

P259.de

Product Data Sheet

2018-05



Super Lupp

High-yield lime cement light basecoat

Product description

Fibre reinforced, quick setting and high-yield lime cement light basecoat type II with organic lightweight aggregates (EPS) for all conventional masonry substrates for interior and exterior use. Particularly efficient operation is possible due to the drying time that has been halved before further application can continue.

Composition

Hydrated lime, cement, graded limestone or quartz grains, EPS lightweight aggregate and fibres, water-retaining and water-repellent additives.

Storage

Store the bags on wooden pallets in a dry environment. The product can be stored for approx. 3 months.

Quality

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

Field of application

Light basecoat for mineral based and paste-like finishing plasters in interior and exterior applications.

As a basecoat on

- For all conventional masonry and concrete substrates
- Under tiles in bathrooms and kitchens
- For scratch render.

Properties and added value

- Lightweight rendering/plastering mortar LW acc. to EN 998-1
- Compressive strength category CS II acc. to EN 998-1
- Lightweight plaster type II
- Suitable for interior and exterior application
- Water-repellent
- With EPS aggregates
- Quick setting
- Drying time has been halved to 1 day per 2 mm plaster thickness
- For machine or hand application

Substrate pretreatment

Substrate	Pre-treatment
Brick, expanded clay or pumice masonry, lime sandstones with masonry mortar joints	On highly absorbent substrates or hot summer weather, apply wet in moist in two coats
Aerated concrete	Apply in two coats wet in moist
Smooth concrete, prefabricated concrete units	SM700 Pro, SM300 or Lusto as a mineral bonding plaster primer
XPS-R insulation panels	SM700 Pro, SM300 or Lusto as a mineral bonding plaster primer
Rough formwork concrete, lime sandstone with thin-bed mortar, small format wood wool slabs	SM700 Pro, SM300 or Lusto as a mineral bonding plaster primer or Der Vorspritzer
Small format brick masonry, random rubble walling, mixed brickwork	Der Vorspritzer
Non-stable substrate	Suitable plaster base
EPS sheathing blocks	SM700 Pro, SM300 or Lusto as a mineral bonding plaster primer

Application

Preparation

Check the substrate for compliance with VOB part C, DIN 18350, chapter 3.1 and/or according to VOB part B, DIN 1961 paragraph 4 section 3. Clean the substrate of dust and remove loose parts 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.

Preparation of the substrate in accordance with the Substrate/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

- Stator D6-3
- Rotor D6-3
- Mortar hoses Ø 25 mm
- Wet mortar pumping distance up to 60 m

Mixing

Mixing by hand

Mix the content of one bag with 8 litres of clean water for a maximum of 2 minutes without further additions until an application-ready lump-free consistence is achieved, and apply quickly.

Mixing by machine

For machine application using mixing pumps, e.g. PFT G4, set the desired consistence by adding water.

Application

Apply Super Lupp on a preprepared substrate with a plaster thickness of at least 10 mm (interior applications) or at least 15 mm (exterior applications), strike off level and scrape. Depending on the substrate mortar burrs, unevenness, etc. can be removed using a plaster plane after approx. 2 hours. Undertake scratch tests with the lattice plane. Super Lupp is an accelerated product; breaks in spraying should not exceed a maximum of 15 minutes (maximum 25 minutes with cooler weather) when possible. Do not leave the mortar and water hoses lying in the sun. Do not stir and apply material that has started to harden.

With Mak3 as a top coat, apply at least 15 mm Super Lupp, strike off level and subsequently roughen with a coarse brush.

Plaster thickness

For a plaster thickness exceeding 30 mm, apply full surface mesh reinforcement (reinforcing mesh 4x4 mm or 5x5 mm) with SM700 Pro, SM300 or Lusto.

Plinth application

Cement plinth plaster UP 310 must be used on the plinth and splash water area and on masonry and surfaces in contact with the ground or gravel on masonry of compressive strength category > 8.

For lightweight and softer wall materials (stone of compressive strength category ≤ 8), use the lightweight plinth basecoat Sockel LUP.

On XPS-R, plinth insulation boards, perimeter insulating panels (with mesh reinforcement) or Sockel LUP, Sockel-SM Pro (with mesh reinforcement) can be applied with a total plaster thickness of at least 7 mm. Additional subsequent moisture protection is not necessary.

After drying out, all other rendered surfaces in contact with ground or gravel beds shall be waterproofed/protected against moisture ingress, starting from basement wall waterproof barrier up to approx. 50 mm above ground level, in accordance with DIN 18533-3. For this purpose, Sockel-Dicht plinth sealing can be applied with a thickness of at least 2.5 mm (double layer). Cover after drying with a fleece laminated dimpled sheet up to ground level.

On a plaster base

On a professionally applied plaster base, apply about a 10 mm thick coat of Super Lupp and level it into the plaster base. Roughen the surface with a brush. After setting, apply another coating about 10 to 15 mm thick, level and scrape. In order to minimize the occurrence of cracks on the plaster surface, it is recommended that you apply a full surface reinforcing mesh 4x4 or 5x5 mm with SM700 Pro, SM300 or Lusto. Do not exceed a coat thickness of 4 mm with SM700 Pro and SM300.

Substrate for tiling

Suitable as substrates for tiles and floor slabs with water action classes W0-I to W3-I (acc. to DIN 18534), if the weight of the tiles and floor slabs including the thin-bed mortar does not exceed 25 kg/m² and the tile format does not exceed 60 x 30 cm. With tile sizes exceeding 60 x 30 cm, embed an additional suitable decoupling roll in the tile adhesive. Ensure a plaster thickness of at least 10 mm. The surface finish must match the respective sealing method. The suitability as a substrate for laying tiles without additional composite sealing is improved, if the plaster surface is trowelled or finished smooth with a levelling rod / straightedge.

Allow to dry and set fully before a tile covering is applied. Use a quick setting, deformable thin-bed mortar as a tile adhesive (e.g. Flexkleber schnell).

Reinforcement

Partial surface reinforcement in exteriors, change of material, building openings etc.

On thin-layer final coats with a grain size of ≤ 3 mm, the partial surface reinforcement is undertaken by the application of a reinforcement plaster with reinforcement mesh directly on the masonry with a joint overlap of 200 mm on the undisturbed masonry area. Roughen the reinforcement plaster layer afterwards without exposing the mesh. The minimum thickness is 5 mm.

On thin-layer final coats with a grain size > 3 mm, the partial surface reinforcement can also be undertaken by the application of a reinforcement plaster with reinforcement mesh directly on the basecoat with a joint overlap of 200 mm on the undisturbed masonry area.

When using Mak3, the partial reinforcement is undertaken in the upper third of the basecoat using Knauf basecoat reinforcement mesh (8x8 mm) and a joint overlap of 200 mm on the undisturbed masonry area.

More information can be found in the "Leitlinie für das Verputzen von Mauerwerk und Beton - Guidelines for plastering masonry and concrete", issued by the Verband für Dämmsysteme, Putz und Mörtel e.V. (VDPM) (German only).

A full surface reinforcement plaster is always preferred to partial surface reinforcement.

Full surface reinforcement in exteriors

With freely textured, brushed surfaces or textured plasters where the grain size is < 2 mm (in acc. with DIN 18350, VOB part C, < 3 mm), mixed brickwork, on sides exposed to weather, critical building geometries, large areas applied with multi-layer wood wool slabs (after a drying time of at least 3 weeks) and insulating layers on XPS-R etc. or with plaster thicknesses of > 30 to 50 mm, a reinforcement plaster with full surface mesh reinforcement (reinforcing mesh 4x4 or 5x5 mm) with SM700 Pro or SM300 is strongly recommended on the hardened basecoat.

Partial surface reinforcement/reinforcement in interiors, change of material etc.

With a change of material in the background, with insulation panels applied over small areas and multi-layer wood wool slabs etc., apply Knauf basecoat mesh in the upper third of the plaster layer with at least 100 mm joint overlay and 200 mm overlap on all sides to the flanking component.

Application temperature/climate

Do not apply at air, material and/or substrate temperatures below $+5$ °C and above $+30$ °C. Protect fresh mortar from frost and rapid drying.

Cleaning

Clean the machines and tools with water immediately after use.

Coatings

Finishing plasters

With favourable weather and drying conditions the drying time can be reduced to 1 day per 2 mm plaster thickness (minimum drying time 5 days), when coated with thin-layer Knauf finishing plasters. Substrate pretreatment may be required depending on the weather conditions and finishing coat.

With RP 240 in 2 mm grain size thickness, a continuous closed surface must be produced or the basecoat must be covered with SM700 Pro.

<p>Note</p>	<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>Only mix the dry mortar with clean water, do not add other additives. 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>With different application thicknesses as well as pronounced joints in the mortar, the substrate may shimmer through after sponging. Should the basecoat remain exposed during the winter, we recommend application of Grundol primer before the finishing plaster is applied in spring. Heating in rooms should only be put into operation in stages. Rapid dehumidification, e.g. using dehumidifiers should be avoided.</p>
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Technical data

Description	Unit	Value	Standard
Reaction to fire	Class	A2-s1, d0	EN 13501-1
Graining	mm	1.5	–
Compressive strength	Category	CS II	EN 1015-11
Bond strength	N/mm ²	> 0.08	EN 1015-12
Failure pattern	–	A, B or C	
Capillary water absorption	Category	W 2	EN 1015-18
Water vapour diffusion resistance μ	–	≤ 20	EN 1015-19
Thermal conductivity $\lambda_{10, \text{dry, mat}}$ at P = 50 %	W/(m·K)	≤ 0.25	EN 1745
P = 90 %	W/(m·K)	≤ 0.27	

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

Material requirement and efficiency

Coat thickness mm	Consumption approx. kg/m ²	Yield approx.	
		m ² /bag	m ² /ton
15.0	11.7	1.7	85.0

The exact consumption can only be determined with a test application on the individual object.

Product range

Description	Application	Graining	Packaging unit	Material number	EAN
Super Lupp	20 kg	1.5 mm	48 bags / pallet	00061533	4003950039874
	Bulk (silo)	1.5 mm	–	00061532	4003950039867



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