

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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KNAUF



Plaster & Façade Systems

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Product Data Sheet

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Sockel-Dicht

Crack-bridging, mineral and flexible sealing slurry

Product description

Crack-bridging, mineral and flexible sealing slurry for use as a plaster sealant on exterior renders making contact with the soil. As mineral based, crack-bridging waterproofing slurries (MDS) for application acc. to DIN 18533 and as crack-bridging waterproofing slurries (CM) for application acc. to DIN 18534.

Composition

Cement, organic binders, graded quartz grains, water-retaining, water-repellent and elasticizing additives.

Storage

Store the bags on wooden pallets in a dry environment. Can be stored for approx. 12 months.

Quality

The product is subject to initial type testing and continuous factory production control. Furthermore, the product has General National Technical Approvals P-AB 074-03 and 084-03 and bears the Ü marking.

Properties and added value

- Single-component, cementitious sealing slurries
- General National Technical Approvals P-AB 074-03 and 084-03
- For interiors and exteriors
- Impermeable to water
- Flexible and crack bridging up to 0.2 mm
- Plaster seal / moisture protection
- Can be painted or plastered over
- Can be painted or applied like a mortar
- Nitrate and sulfate resistant

Field of application

- As a plaster seal / moisture protection of plaster surfaces with contact to the soil acc. to EN 13914.
- As crack-bridging waterproofing slurries (MDS) for use acc. to DIN 18533 on external wall surfaces and floor slabs made of concrete contacting the soil with water action class W1-E.
- As crack-bridging waterproofing slurries on solid substrates with water action class W4-E.
- As crack-bridging waterproofing slurries (CM) acc. to DIN 18534 on walls and on floors with substrates insensitive to moisture of water action classes W2-I to W3-I.

Application

Substrate and pretreatment

Substrate	Pretreatment
New plaster surfaces	None
Soiled concrete surfaces	Clean with a high-pressure water cleaner and allow to fully dry or sand blast before further processing
Highly absorbent, weather-beaten old renders (level)	Prime with a saturated coating of Grundol primer
Masonry	Level with UP 310, Sockel LUP or Sockel-SM
Render surfaces (rough)	Skim smooth with Sockel-SM Pro or Sockel-SM

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" (German only) issued by the German 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.

Mixing

Mixing by hand

Mix the contents of one bag with approx. 6 litres (for trowel application) or 7 litres (paintable) of clean water without further additions until an application-ready lump-free consistence is achieved. Allow to mature for 10 minutes before mixing again for about 30 seconds with a slowly rotating putty mixer.

Product application

Sockel-Dicht as plaster seal / moisture protection acc. to DIN 13914

A plaster system must be protected against the ingress of moisture in damp and water hazard areas. This also applies for balconies, loggias, flat roofs and terraces.

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 case of stairs, the plaster sealing should be applied at least 8 cm above the step, as it is necessary to assume an increased exposure to moisture here.

In our case, this must be applied up to the existing building sealing.

In case of plastered insulation panels that are connected to the existing on-site perimeter insulation, it is necessary to ensure that the lower plaster edge is protected against the ingress of moisture by the plaster seal / moisture protection.

As plaster seal / moisture protection, Sockel-Dicht must be applied in a dry layer thickness of at least 1 mm (wet layer thickness at least 1.2 mm), in two work steps, e.g. with a trowel or wide (water) brush.

In case of a paintable consistence, Sockel-Dicht is applied with a prime brush, in case of a plasterable consistence it is applied with a spatula, finishing trowel or trowel. The application is performed in two stages. When sufficiently dry, a protective layer with slip membrane (e.g. fleece laminated dimpled sheet) should be placed before the construction.

To achieve an almost seamless transition from the existing finish coat, stike off the Sockel-Dicht in the transition to the finish coat to grain thickness. Before working area further, allow to dry and harden for at least 5 days. Then apply coats of Fassadol, Autol or MineralAktiv Fassadenfarbe façade paint. The entire splash water area can be covered with Sockel-Dicht and worked onto the façade. In case of a finishing coat applied directly onto the Sockel-Dicht, a preliminary coat of Quarzgrund Pro is required beforehand.

Use in case of substrates of water action classes W1-E and W4-E.

Apply a twin-layer at last 2.5 mm thick using Sockel-Dicht on prepared concrete and rendered exterior cellar walls using a trowel. Form a cove for transitions to the foundation / floor slab. Embed a suitable fleece or fine mesh to cover cracks. In the plinth area, extend Sockel-Dicht in the building phase up to 30 cm above the ground line to allow sufficient modification potential in the ground surface. In the finished state this value should not exceed 15 cm. Allow Sockel-Dicht to dry and set fully before continuing.

Up to a height of 30 cm, Sockel-Dicht can be plastered over with Sockel LUP at a maximum thickness of 15 mm. When using Sockel LUP, apply Sockel-Dicht as a bonding coat, roughen the surface and apply Sockel LUP on the following day.

Sealing of interiors acc. to DIN 18534

Use in case of substrates insensitive to water of water action classes W2-I and W3-I. Apply at least a 2.5 mm thick layer of Sockel-Dicht using a trowel on dry and set basecoat layers of compressive strength category CS II, CS III and CS IV acc. to EN 998-1. At the transition of the sealing between floor / ceiling and wall as well as in vertical wall corners, fit fleece, sealing strips (if necessary with cut protection) etc. so it is not possible to get behind them. Allow to dry and harden for at least 3 days before applying tiles. Transitions, closures and connections of the sealing in built-ins and penetrations must be executed so it is not possible get behind or below them. Use Sakret Fliesenkleber FKK as a system tile adhesive. Use Flächendicht sealant with moisture sensitive substrates of water action classes W0-I and W1-I.

Two-layer application

The second layer can be applied as soon as the first layer has dried sufficiently ensuring that it is not damaged by application of the second layer.

Protective layer with slip membrane

In exteriors, an additional mechanical protective layer with a slip membrane, e.g. fleece-laminated dimpled sheet, must be placed in front of it up to the edge of the ground line.

Reinforcement

On critical substrates and cracked surfaces, Pastol reinforcement mesh or suitable fleece fabric can be embedded. Alternatively, a mesh reinforcement with Sockel-SM or Sockel-SM Pro can be applied. Sockel-Dicht can be applied when dry.

Application temperature/climate

Do not apply material at air and/or substrate temperatures below +5 °C and above +30 °C. Protect fresh mortar from frost and rapid drying. Protect against exposure to strong sunlight, e.g. by netting. In case of rapid drying (wind, sun), wet again once or twice.

A drying time of at least 1 day per mm basecoat thickness is required prior to application of a further coat.

Application time

Up to about 60 minutes depending on the substrate.

Cleaning

Clean the machines and tools with water immediately after use.

Notes

For execution of the sealing, always observe the specifications of the DIN 18533, DIN 18534 and DIN 18535, VOB part C as well as the General National Technical Certificates P-AB 074-03 and 084-03 and the "Guideline for planning and execution of sealing constructional components contacting soil with flexible sealing slurries".

Sockel-Dicht must always be applied in two-layers to achieve the required wet layer thickness of at least 2.5 mm or 1.2 mm (dry layer thickness at least 2 mm or 1 mm). A check of the layer thickness must be undertaken by measuring the wet layer thickness.

Clean tools with water after work has been completed.

Technical data

Description	Standard	Unit	Sockel-Dicht
Reaction to fire	DIN 4102-1	Category	B2
Graining	–	mm	0.5

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

Material requirement and efficiency

Wet layer thickness mm	Consumption approx. kg/m ²	Yield approx. m ² /bag	m ² /ton
2.5	3.8	6.5	260.0
1.2	1.8	14.0	560.0

The consumption values were determined under laboratory conditions. Additional consumption resulting from conditions in practice must be taken into account. The material consumption depends on the roughness, evenness and absorption properties of the substrate as well as the machinery used.

Product range

Description	Application kg	Graining mm	Packaging unit bags/pallet	Material number	EAN
Sockel-Dicht	25	0.5	42	00055086	4003950033919

Sustainability and environment

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



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