

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.

Knauf Gips KG denies any liability for applications outside of Germany as this requires changes acc. to the respective national standards and building regulations.

KNAUF

Plaster and Façade Systems

P213a.de

Product Data Sheet

2019-11



Sockel-SM Pro

Bonding mortar, basecoat and render finish with moisture protection for the plinth

Product description

Polymer-modified, system-tested mineral-based adhesive, reinforcing mortar and render finish for the plinth area. No additional moisture protection is necessary if the total render thickness is ≥ 7 mm.

Composition

Cement, graded limestone grains or quartz grains, special fibres, special bonding agent, water-repellents and additives.

Storage

Store the bags on wooden pallets in a dry environment. Can be stored for at least 9 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 mark. Furthermore, the product is subject to external monitoring and bears the Ü marking.

Properties and added value

- General-purpose rendering/plastering mortar GP acc. to EN 998-1
- Compressive strength category CS IV acc. to EN 998-1
- Suitable for interior and exterior application
- Can be used as a bonding plaster primer
- Integrated moisture protection
- Non-conductive capillary action
- Contains sealant, fibres and bonding agents
- For machine or hand application
- Grain size 1.0 mm
- Colour shade grey

Field of application

The integrated protection against ground moisture and the special fibre reinforcement provide the highest levels of plinth area protection.

- As basecoat and render finish (total render thickness ≥ 7 mm) for the plinth area and areas contacting the soil without additional moisture protection
- As an adhesive on mineral sealing slurries, polymer modified bituminous thick coatings (PMBC) and laid polymer bitumen welded sheeting
- As a basecoat and sponged render finish on plinth plasters
- As an adhesive should an adhesive with non-conductive capillary action be required
- As a system-tested bonding mortar, basecoat and render finish in the plinth area for WARM WALL systems
- As a bonding plaster primer on mineral sealing slurries, polymer modified bituminous thick coatings (PMBC) and laid polymer bitumen welded sheeting
- As a basecoat and render finish on concrete, masonry and foam glass insulation panels
- As a bonding plaster primer and adhesive on Pavaflash sealing resin

Certificate of Usability

National Technical Approval (ABP) P-5275/012/14 MPA-BS

Application

Substrate and pretreatment

Substrate	Pretreatment
Bituminous thick coatings (PMBC), mineral sealing slurries, laid polymer bitumen welded sheeting	The substrate must be free of dust and the existing building sealing (PMBC and mineral slurries) must be fully dry. Laid polymer bitumen welded sheeting must be fully adhesively bonded. When used as a bonding plaster primer, roughen the surface (sinter layer)
Plinth plaster of compressive strength category CS III and CS IV	The plinth render must be covered completely with a total render thickness ≥ 7 mm.
Chalking or sanding surfaces of compressive strength category CS III and CS IV	Check for sufficient stability. Solidify surface with Grundol primer. Grundol should be completely absorbed.
Concrete, paint coats, old plasters	Check for sufficient stability. If necessary, clean with a high-pressure water cleaner until dust free and allow to dry completely. If necessary, solidify with Grundol primer
Foam glass insulation panels, XPS-R insulation boards, perimeter and plinth insulation boards	The substrate must be free of dust. The insulation panels must be adhesively bonded according to manufacturer's specifications
Masonry in the plinth area above the building sealing	The substrate must be dry and free of dust
Pavaflash Abdichtungsharz sealing resin	Pavaflash must be applied in accordance with manufacturer's instructions and also set and dust free. Primer coat with Quarzgrund Pro

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. 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 and 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. Clean the substrate of dust and loose parts and remove ensuring that the surface is smooth. Test existing coats for stability and compatibility before application of Sockel-SM Pro. Allow preliminary/primer coats to dry for at least 12 hours before continuing work.

Bituminous thick coatings and mineral sealing slurries must be sufficiently dry.

Machines / equipment

PFT mixing pump G 4

- Stator D4-3
- Rotor D4-3
- Mortar hoses Ø 25 mm
- Wet mortar pumping distance up to 30 m

Mixing

Mixing by hand

Mix the content of one bag with 7.7 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. When mixing, use clean water and do not add other additives. Clean the machines and tools with water immediately after use.

Mixing by machine

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

Application

Mineral bonding plaster on mineral sealing slurries, polymer modified bituminous thick coatings, laid polymer bitumen sheeting (up to max. 30 cm over ground level)

For full surface application of Sockel-SM Pro, press firmly onto substrate and spread using a notched trowel. Roughen the surface / sinter layer after the mortar has hardened. The render thickness is approx. 5 mm, the render coverage in the grooves must be at least 2 mm. Apply the subsequent render on the following day at the earliest and after 3 days at the latest.

Adhesive mortar

Ribbon and dab method ≥ 40 %

Apply an approx. 50 mm wide ribbon of mortar around the perimeter of the insulation panels and three palm-sized adhesive mortar dabs or strips in the middle. Depending on the substrate (old renders, paint coats, bituminous thick coatings, laid polymer bitumen sheeting, etc.), additional dowelling of the insulation boards up to ≥ 150 mm above the ground line is necessary.

Full surface application

With bituminous thick coatings (PMBC) or laid polymer bitumen sheeting, the adhesive can also be applied to the full surface of the insulation boards. An additional dowelling of the insulation boards up to ≥ 150 mm above the ground line is then unnecessary.

Apply insulation panels immediately, at the latest 10 minutes after mortar application, by pushing, floating and pressing. Allow a setting time of at least 48 hours before continuing work.

Basecoat

Embed strips of reinforcement mesh or Gewebeeckwinkel Sturzecke mesh corner angle for lintel corner at the inner corners between window reveal and window lintel fully in Sockel-SM Pro. Subsequently apply Mesh Corner Angle 100/150 perpendicular and flush. If Gewebeeckwinkel Sturzecke mesh corner angle for lintel corner is not used, apply additional diagonal reinforcement made of Gewebeeckpfeile mesh corner arrows or reinforcement mesh strips approx. 300 x 500 mm directly in the fresh mortar starting from the corner.

Subsequently embed Knauf Armiergewebe reinforcement mesh on the entire surface with at least a joint overlap of 100 mm “fresh-in-fresh” in the upper third of the basecoat layer. The Armiergewebe reinforcement mesh should be fully covered with Sockel-SM Pro.

Thickness of the basecoat layer in the plinth area on Knauf WARM WALL systems: at least 5 to 7 mm.

Render finish

Apply Sockel-SM Pro for sponged surfaces (layer thickness 1 to 2 mm) one day later at the earliest to the basecoat layer already applied with Sockel-SM Pro. Sponge the Sockel-SM Pro surface as the mortar starts to set.

Plinth area – render

Sockel-SM Pro can be applied on plinth renders of compressive strength category CS III/IV. The application with integrated moisture protection is undertaken according to the instructions in the sections Basecoat and Render finish. The plinth render must be covered completely with a total render thickness of ≥ 7 mm.

Plinth render and render finish on concrete and masonry

As a polymer-modified cementitious plaster with a total plaster thickness of at least 8 mm (DIN EN 13914-1). The application is undertaken according to the instructions in the sections “Basecoat and Render finish”.

Plaster thickness

Apply Sockel-SM Pro at max. 10 mm thickness per layer. For plaster thickness's exceeding 10 mm, apply the 1st layer and then apply a 2nd layer after about 2 hours. Roughen the surface should the drying time be longer.

Application temperature / climate

Do not apply material at air and/or substrate temperatures below +5 °C and above +25 °C. Protect fresh mortar from frost and rapid drying.

Application time

Do not apply Sockel-SM Pro during exposure to direct sunshine, as this will quickly lead to the formation of a skin on the surface. Can be worked for about 20 minutes at +20 °C ambient temperature.

Additional integrated moisture protection

Additional protection against ground moisture can be omitted if the total render thickness with Sockel-SM Pro as a basecoat and render finish is at least 7 mm. Layer thickness measurements must be performed.

Plinth application

All the render surfaces with contact to soil or gravel beds after hardening and drying require the application of a fleece laminated dimpled sheet.

<p>Note</p>	<p>For application apply according to EN 13914, DIN 18345, DIN 18350 and DIN 18550, VOB part C as well as the generally recognized building engineering rules and valid guidelines.</p> <p>The mineral finishing render offers some protection against algal and fungal growth and has an inhibiting effect due to its natural alkaline formulation. No guarantee can, however, be given for long-term protection against algal and fungal growth. The susceptibility depends on the local and environmental conditions.</p>
--------------------	--

Coatings and linings

Sockel-SM Pro must be fully hardened and dry before the paints are applied. Paints or finishing coats should not be applied until at least 7 days drying time have passed. On coloured surfaces, after Grundol primer is applied, two coats of Autol (silicon resin façade paint) or Fassadol (silicone-reinforced façade paint) are recommended.

Technical data

Description	Standard	Unit	Value
Reaction to fire	EN 13501-1	Class	A2-s1, d0
Graining	–	mm	1.0
Compressive strength	EN 1015-11	Category	CS IV
Bond strength	EN 1015-12	N/mm ²	≥ 0.08
Failure pattern		–	A, B or C
Capillary water absorption	EN 1015-18	Category	W 2
Water vapour diffusion resistance μ	EN 1015-19	–	≤ 25
Thermal conductivity $\lambda_{10, \text{dry, mat}}$	EN 1745		
P = 50 %		W/(m·K)	≤ 0.82
P = 90 %		W/(m·K)	≤ 0.89

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

Material requirement and efficiency

Application	Consumption approx. kg/m ²	Yield approx. m ² /bag
Apply adhesive (level substrate) to 40 % of the adhesive bonding surface	4.0	7.5
Apply adhesive (level substrate) to 100 % of the adhesive bonding surface	8.0	3.7
Mesh reinforcement and render finish, 7 mm layer thickness	11.0	2.7

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

Product range

Product designation	Application	Graining	Packaging unit	Material number	EAN
Sockel-SM Pro	30 kg	1 mm	36 bags/pallet	00433419	4003950095405



Observe the safety data sheet!

For safety data sheets and CE marking see
pd.knauf.de



Videos for Knauf systems and products can be found under the following link:
www.youtube.com/knauf



The iPad App Knauf Infothek now provides all the current information and documents from Knauf Gips KG at any time and in every location in a clear and comfortable way.
Knauf Infothek

Knauf Direct

Technical Advisory Service:

▶ knauf-direkt@knauf.de

▶ www.knauf.de

Knauf Gips KG Am Bahnhof 7, 97346 Iphofen, Germany

All technical changes reserved. Only the current printed instructions are valid. The stated information represents current state-of-the-art Knauf technology. The entire state of approved engineering rules, appropriate standards, guidelines, and rules of craftsmanship are not included herewith. These and all application instructions have to be adhered to separately by the installer. Our warranty is expressly limited to our products in flawless condition. All application quantities and delivery amounts are based on empirical data that are not easily transferable to other deviating areas.

All rights reserved. All amendments, reprints and photocopies, including those of excerpts, require our expressed permission.