

# Sockelputz SF

Fibre-reinforced, fast-drying lightweight render for wall plinths



## AREAS OF APPLICATION

Mineral lightweight render according to DIN EN 998-1. For exterior application to plinths and cellar walls. Suitable as a mesh-reinforced lightweight render for wall plinths for subsequent ceramic cladding (brick slips / tiles). For interior application in normal-duty to heavy-duty areas, e.g. wet rooms. Suitable for all common masonry substrates, especially masonry with a high insulating capacity.

## PRODUCT PROPERTIES

- Lightweight mineral aggregates
- Fibre reinforcement ensures high cracking resistance
- Very easy to work with
- Accelerated drying
- Optimum drying behaviour when applied as system with Alsitop SF (lightweight base-coat render for façades)
- Machine processing or by hand
- Feltable, fine surface
- Water-repellent

## TECHNICAL DATA

Binder base	Mineral binding agent according to DIN EN 197-1 and DIN 459-2 and aggregates according to DIN EN 13139
Mortar category	Class CS III according to DIN EN 998-1
Dry mortar density	approx. 1,3 g/cm <sup>3</sup> according to DIN EN 1015-10
Adhesive pull strength	≥ 0,3 N/mm <sup>2</sup>
Water vapour permeability μ	≤ 20 according to DIN EN 1015-19
Thermal conductivity	λ <sub>10 dry,mat</sub> ≤ 0,45 W/(mK) for P=50% according to DIN EN 1745 λ <sub>10 dry,mat</sub> ≤ 0,49 W/(mK) for P=90% according to DIN EN 1745
Water absorption	Class W <sub>2</sub> according to DIN EN 998-1

**APPLICATION INSTRUCTIONS**

Preparation	<p>Mask window sills and connecting parts.</p> <p>Thoroughly cover glass, ceramic, brick, natural stone, varnished, glazed and anodised surfaces.</p> <p>First, render the reveals, grip sockets and damaged areas.</p>
Substrate pre-treatment	<p>All substrates must be stable, level (DIN 18202), clean and free of any residue, which can reduce adhesiveness.</p> <p>Pre-wetting recommended in conditions of high temperatures, wind and absorbent substrates.</p> <p>Smooth masonry, masonry with inferior absorbency or concrete substrates should be pre-treated with a bonding coat or pricking-up coat.</p> <p>Assessment and preparation of the rendering base as well as application of the render must always comply with VOB/C-ATV-DIN 18350 and DIN 18550-1 or DIN 18550-2, as applicable.</p>
Mixing	<p>Mix 25 kg material (one bag) with approx. 5,7 l of cold water.</p> <p>Mixing with conventional rendering machines, electric mixers or compulsory mixers.</p>
Application	<p><b>Render application:</b></p> <p>Apply the material by machine or manually with a float and stainless steel trowel, then smooth over with a slicker.</p> <p>Make sure that work is not interrupted for more than 15 – 20 minutes during the application process..</p> <p>If work is interrupted for more than 20 minutes, the mortar hoses must be cleaned thoroughly if the render is applied by machine.</p> <p>Do not leave mortar hoses exposed to the sun.</p> <p>Sintered coatings and uneven areas may need to be roughened or rubbed back with a lattice plane.</p> <p>Depending on the weather conditions, the lattice plane may be used on the surfaces after approx. 4 hours.</p> <p>Planing is not essential if the layer of render is already smooth.</p> <p>A bonding primer between the base-coat render and the textured render is not essential. For planed surfaces a bonding primer suitable for the textured render must be used.</p> <p>We recommend applying two coats to achieve an evenly felted finish throughout. When applying two coats, the first layer of render must be roughened thoroughly and the second coat of Sockelputz (plinth render) SF must be applied and felted the following day. As an alternative to Sockelputz (plinth render) SF, only products explicitly designed for wall plinths may be used top-coat renders and/or coatings.</p> <p>For single layers, apply the render at the desired thickness, use a level to smooth it over and finish with a sponge disc once the render has begun to set.</p> <p>Coatings that act as vapour barriers must only be applied to the render once it has dried out completely, and at the earliest when it has achieved its final strength, i.e. generally after 28 days.</p> <p>Once the rendering of the plinth areas has been completed, apply a coat of</p>

moisture stop, starting from the area in contact with the soil and going up to at least 5 cm above top ground surface. A product such as Waterflex Carbon should be used to provide this additional damp-proofing.

**Render reinforcement:**

For partial or full reinforcement, Universal-Aero glass fibre mesh must be embedded in the upper third of the base-coat layer as an additional measure if the following conditions apply:

- Variable substrate properties (e.g. mixed masonry)
- Extremely exposed location of the building
- Increased risk of cracking (e.g. corners of windows and doors)
- Lightness value less than LRV 30
- Top-coat renders with particle size < 2 mm

Alternatively, before the base-coat render is applied, sections of the area may be reinforced e.g. by applying Armatop AKS or Armatop MP with Glass Fibre Mesh 32, or an additional reinforcement layer, e.g. consisting of Sockelputz (plinth render) SF (4 mm) with fully embedded Universal-Aero glass fibre mesh may be applied to the substrate.

If surfaces are to be finished with brick slips or tiles, Universal-Aero glass-fibre mesh must be embedded in the upper third of the base coat throughout.

Alsibond K is to be used as bedding mortar and Alsifill AK/AS as jointing mortar for the subsequent ceramic cladding. The max. water absorption of the ceramic cladding (clinker and brick slips) according to DIN EN ISO 10545-3 is limited to 6 %.

**Clinker and brick slips must possess the following properties:**

- Frost-resistance
- Pore volume of the bonding layer on the rear face of the ceramic cladding must be at least 20 mm<sup>3</sup> per gram
- Pore size distribution of the bonding layer on the rear face of the cladding with a maximum pore radius ≥ 0.2 µm

Field definition joints must be incorporated to reduce detrimental stresses in the external wall cladding. The position and dimensions must be specified in the plans. The joints must be installed in compliance with DIN 18540.

Field definition joints should run in straight lines and must be scraped back fully to the levelling mortar or the bare wall and then sealed.

DIN 18515-1 must be complied with when installing clinker and brick slips.

The embedded mesh must have at least a 10 cm overlap at the joints. An additional diagonal reinforcement strip must be embedded at the corners of openings, i.e. windows and doors.

**Installation of corner beads.**

Embed a corner bead of the appropriate width, e.g. Y Corner Bead KU, in Sockelputz (plinth render) SF.

Consumption

approx. 1,3 kg/m<sup>2</sup> per mm layer thickness

Determine the precise material requirements by means of a trial coating on the object.

Minimum layer thickness

min. of 10 - max. of 15 mm (single-layer)

max. of 25 mm (two-layer)



Information about the weather	<p>The temperature must not fall below +5°C and not exceed +30°C during application and drying.</p> <p>Do not apply in direct sunlight.</p> <p>Please note that the setting time is reduced in windy conditions.</p> <p>Protect the plaster against drying out too quickly.</p>
Reworked	<p><b>Interval before additional reinforcement layers can be applied:</b></p> <p>At least 24 hours for Sockelputz (plinth render) SF. At least 48 hours for Armatop A.</p> <p><b>Interval before textured renders can be applied:</b></p> <p>24 hours maximum for second felted layer with Sockelputz (plinth render) SF. At least 4 days for organic textured renders. At least 2 days for mineral textured renders.</p> <p>Please note that these figures are dependent on temperature, layer thickness and relative humidity.</p>
Cleaning of tools	In a fresh state with water.
Application by machine	<p><b>Machinery / Equipment e.g.:</b></p> <p>Mixing pump PFT G4 Screw jacket: D6-3 Conveying screw: D6-3 Mortar hoses: 25 mm diam., 35 mm diam. Wet-mortar conveying range: up to 20 m, up to 30 m</p> <p>Please ask for our special information sheet on machine application.</p>

## STORAGE

Minimum storage life of 9 months if kept dry, protected against moisture, cool and in original sealed packaging.

## PACKAGING INFORMATION

Colour	Natural white
Packaging unit	Paper sack approx. 25 kg net

## OTHER INFORMATION

Information on safety	The information provided in the current safety data sheet applies.
Transportation	Not a hazardous material
Giscode	ZP1 cement-based products, low in chromate

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The above information is based on many years of experience and tests and is provided by us to the best of our knowledge. Such information applies in addition to our application guidelines. However, we cannot accept any responsibility for the correctness of our recommendations on account of wide variety of substrates and of on-site conditions and applications which are outside our control. Any recommendations provided by our employees and deviating from these documents must be given in writing. We reserve right to make any changes on account of technical progress or building regulations. Your technical advisor will be pleased to provide the relevant product data sheets.



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