

## Plaster and Façade Systems

**P2403\_DSP.de**

# SM600 Sprint

Rapidly workable adhesive, basecoat, renovation mortar and renovation render

Product Data Sheet

2026-02



### Product description

System-tested, mineral-based fibre reinforced high yield bonding, reinforcement mortar and finish coat for WARM WALL Sprint systems. As an adhesive on basecoats and as a mortar for renovation and refurbishment. Can be applied at exterior temperatures between  $\geq +1$  °C to  $+30$  °C. As a system component of the Sprint technology, Noblo 600 Sprint can be applied at temperatures  $\geq +5$  °C on the following day or SM600 Sprint can be applied again as a finishing coat. The paint coat with MineralAktiv Fassadenfarbe paint can also be undertaken on the following day.

#### Composition

White cement, graded limestone grains, mineral lightweight aggregate, water-retaining and water-repellent additives, and mortar additive.

#### Storage

Store the bags on wooden pallets in a dry environment. The product can be stored for at least 6 months. Re-bag damaged bags and use first.

#### Quality

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

### Properties and added value

- Lightweight rendering/plastering mortar LW acc. to EN 998-1
- Compressive strength category CS III acc. to EN 998-1
- Application temperature  $\geq +1$  °C to  $+30$  °C
- Subsequent coating on the following day
- High yield
- Mineral lightweight aggregate
- Can be sponged
- For machine or hand application
- Grain size 1.0 mm
- Natural white colour

### Field of application

- As an adhesive, basecoat and top coat for Knauf WARM WALL Sprint system
- Renovation mortar and basecoat when reworking existing old coating layers
- Reinforcement on basecoat
- Multi-textured top coat (broom finish, combed trowel finish, sponged finish, freely textured, etc.)
- For adhesive bonding of cellar ceiling insulation boards
- In façades and in plinth areas

## Application

### Substrate and pretreatment

Substrate	Pretreatment
Non-stable paint coats	Remove completely.
Render hollows and cavities	Remove completely and fill with a suitable render, take the drying times into account.
Concrete	If necessary, clean until dust free and allow to dry completely.
Chalking old coats or sanding old renders	Solidify the surface by applying Grundol primer. The Grundol should be fully absorbed.

### 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 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 Abdeckerarbeiten für Maler- und Stuckateurarbeiten - Masking and covering for painting and stucco work" (German only) issued by the Bundesverband Ausbau und Fassade. Protect weather-exposed surfaces from precipitation and direct sunlight.

All substrates must be frost-free, stable, dry, even and dust free as well as free of any residual substances that may reduce the adhesion. Test existing coats (paint coats and old renders) for stability and compatibility before application of SM600 Sprint. Allow primer coats to dry for at least 12 hours before continuing work.

### Machines / equipment

Knauf PFT mixing pump G 4

- Stator D4-3
- Rotor D4-3
- Mortar hoses Ø 25 mm
- Wet mortar pumping distance up to 40 m

### Mixing

#### Mixing by hand

Thoroughly mix the content of one bag with 8.7 litres of clean water without further additions until an application-ready lump-free consistence is achieved.

#### Mixing by machine

For machine application using mixing pumps, e.g. PFT G 4, set the desired consistence by adding water.

#### Notes

Breaks in spraying should not exceed a maximum of 15 minutes (maximum of 25 minutes with cooler weather). Clean the machine and hoses in case of longer interruptions/breaks. Do not leave the mortar and water hoses lying in the sun. Do not stir and apply material that has started to harden.

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).

### Application

#### Bonding

SM600 Sprint can be applied manually or by machine. A stainless-steel trowel must be used. Apply insulation panels immediately, no later than 10 minutes after application of the adhesive, in the fresh adhesive bed by pushing, floating and pressing.

#### Sprint technology – subsequent reinforcement layer

##### Following day

Should the temperature (air and wall) be  $\geq +5\text{ °C}$  during the application and drying time (at least 1.5 hours after application) of the SM600 Sprint adhesive, dowelling and/or the application of the basecoat layer using SM600 Sprint can be carried out the following day.

##### Drying time 1 day per mm, minimum 5 days

Should the temperature be  $\geq +1\text{ °C}$  to  $< +5\text{ °C}$  and the wall is frost-free during the application and drying time of SM600 Sprint adhesive, dowelling and/or the application of the basecoat layer may be carried out using SM600 Sprint after a drying time of 1 frost-free day per millimetre, and at least 5 frost-free days.

Only frost-free days are to be taken into account for the drying time. After application, there may not be a prolonged frost extending over several days. The wall must be free of ice.

#### Polystyrene insulation panels

##### Adhesive application on insulation materials

The adhesive bonding surface with the substrate is  $\geq 40\%$  after pressing in the insulation panels. Apply an approx. 50 mm wide ribbon of mortar around the perimeter and 3 palm-sized adhesive mortar dabs or strips on the insulation panel center. On even substrates it is possible to apply the adhesive mortar on the entire surface of the insulation panel with a notched trowel.

##### Application of adhesive on substrate

The adhesive can be applied in the form of mortar dabs directly on the substrate at spaces of maximum 100 mm using the meandering method. In case of partial surface adhesive application, the required adhesive bonding surface must be  $\geq 60\%$  after pressing on the insulation panels. If the adhesive mortar is applied over the entire surface, the adhesive mortar must be combed with a notched trowel immediately before the insulation panels are applied. Apply the insulation panels immediately after adhesive is applied to the fresh mortar bed by pushing, floating and pressing. Apply a continuous strip of adhesive in the edge areas. Only apply a maximum of 3 m of adhesive in advance.

#### Mineral wool lamellae boards

##### Adhesive application on insulation materials

On even substrates it is possible to apply the adhesive mortar on the entire surface of the insulation panel with a notched trowel.

##### Application of adhesive on substrate

The adhesive can be applied in the form of mortar dabs directly on the substrate at spaces of maximum 100 mm using the meandering method. In case of partial surface adhesive application the required adhesive bonding surface must be  $\geq 50\%$  after pressing on the insulation panels. If the adhesive mortar is applied over the entire surface, the adhesive mortar must be combed with a notched trowel immediately before the insulation

panels are applied. Apply the insulation panels immediately after adhesive is applied to the fresh mortar bed by pushing, floating and pressing. Apply a continuous strip of adhesive in the edge areas. Only apply a maximum of 3 m of adhesive in advance.

**Mineral wool boards***Adhesive application on insulation materials*

The adhesive bonding surface with the substrate is  $\geq 40\%$  after pressing in the insulation panels. Apply an approx. 50 mm wide ribbon of mortar around the perimeter and 3 palm-sized adhesive mortar dabs or strips on the insulation panel center. On even substrates it is possible to apply the adhesive mortar on the entire surface of the insulation panel with a notched trowel.

*Application of adhesive on substrate*

The adhesive can be applied in the form of mortar dabs directly on the substrate at spaces of maximum 100 mm using the meandering method. In case of partial surface adhesive application the required adhesive bonding surface must be  $\geq 50\%$  after pressing on the insulation panels. If the adhesive mortar is applied over the entire surface, the adhesive mortar must be combed on with a notched trowel immediately before the insulation panels are applied. Apply the insulation panels immediately after adhesive is applied to the fresh mortar bed by pushing, floating and pressing. Apply a continuous strip of adhesive in the edge areas. Only apply a maximum of 3 m of adhesive in advance.

**PU insulation panel***Adhesive application on insulation materials*

The adhesive bonding surface with the substrate is  $\geq 40\%$  after pressing in the insulation panels. Apply an approx. 50 mm wide ribbon of mortar around the perimeter and 3 palm-sized adhesive mortar dabs or strips on the insulation panel center.

*Application of adhesive on substrate*

The adhesive can be applied in the form of mortar dabs directly on the substrate at spaces of maximum 100 mm using the meandering method. In case of partial surface adhesive application the required adhesive bonding surface must be  $\geq 50\%$  after pressing on the insulation panels. If the adhesive mortar is applied over the entire surface, the adhesive mortar must be combed on with a notched trowel immediately before the insulation panels are applied. Apply the insulation panels immediately after adhesive is applied to the fresh mortar bed by pushing, floating and pressing. Apply a continuous strip of adhesive in the edge areas. Only apply a maximum of 3 m of adhesive in advance.

**Reinforcement**

At the inside corners of reveal to lintel, embed reinforcement mesh strips or mesh corner angle reinforcement fully into the SM600 Sprint. Subsequently apply Gewebeeckwinkel 100/150 Mesh Corner Angles 100/150 mm perpendicular and flush, apply the reinforcement layer and level it. Alternatively, embed 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. Apply mortar in the corresponding render thickness and embed Knauf Armiergewebe reinforcement mesh on the entire surface with at least a joint overlap of 100 mm "fresh-in-fresh". The

reinforcement mesh should be fully covered. The layer thicknesses of the basecoat layer on Knauf WARM WALL systems is 5 – 7 mm. The reinforcement mesh is arranged in the upper half of the reinforcement layer. In case of a double reinforcement mesh layer, the mesh layers must be offset to one another. At least 2 to 3 mm of mortar must be between the mesh sheets. The diagonal reinforcements are embedded after the first reinforcement mesh layer. The joint overlap of the reinforcement mesh to the first reinforcement mesh and the overlap of the mesh sheets to one another is  $\geq 100$  mm.

**Basecoat / renovation mortar**

Embed the mesh corner angle lintel and mesh corner angle perpendicular and flush in SM600 Sprint. In addition, starting diagonally from all opening corners, embed Gewebeeckpfeile mesh corner arrows or approx. 300 x 500 mm strips of reinforcement mesh (except when using Gewebeeckwinkel Sturzecke mesh corner angle for lintel corner) over the entire surface in SM600 Sprint.

Apply SM600 Sprint in a layer thickness of approx. 4 mm and embed reinforcement mesh on the entire surface with at least a joint overlap of 100 mm fresh-in-fresh in the basecoat layer. The mesh should be fully covered and arranged in the upper third of the SM600 Sprint.

**Note**

When used as a reinforcement layer for application on existing old coatings that require a layer thickness  $> 7$  mm, extended drying times (at least 3 days) must be observed.

The basecoat must be applied at  $\geq +5$  °C. Before application of SM600 Sprint, drying times of the basecoat of at least 1 day per mm render thickness must be observed. High levels of humidity or fog will extend the drying times.

**Sprint technology – subsequent top coat***Following day*

Should the temperature be  $\geq +5$  °C during the application and drying time (at least 15 hours after application) of the SM600 Sprint basecoat, the following layer can be carried out the following day with SM600 Sprint or Noblo 600 Sprint.

*Drying time 1 day per mm, minimum 5 days*

Should the temperature be  $\geq +1$  °C to  $< +5$  °C during the application and drying time of SM600 Sprint, the following layer may be carried out using SM600 Sprint or Noblo 600 Sprint after a drying time of 1 frost-free day per millimetre, and at least 5 frost-free days.

Only frost-free days are to be taken into account for the drying time. After application, there may not be a prolonged frost extending over several days.

## Finish render

Apply sponged texture SM600 Sprint to the full surface using a stainless steel tool in grain thickness. In case of application by machine, spray on a thin layer of material and rule with a stainless steel tool. Allow SM600 Sprint to dry and then apply the second layer in grain thickness and sponge finish.

Apply SM600 Sprint as a freely textured surface (e.g. broom finish) with a layer thickness of 2 to 3 mm and work the surface.

When using SM600 Sprint as a finish coat, a double coat of MineralAktiv Fassadenfarbe paint must be applied to the façade.

## Sprint technology – subsequent paint coat

### Following day

If the temperature is  $\geq +5\text{ °C}$  during application and the drying time (at least 15 hours after application) of the SM600 Sprint or Noblo 600 Sprint finish coat, the subsequent coat (MineralAktiv façade paint) can be applied the following day.

### Drying time min. 5 days

If the temperature is  $\geq +1\text{ °C}$  to  $< +5\text{ °C}$  during the application and drying time of SM600 Sprint or Noblo 600 Sprint finishing plaster, the subsequent coat (MineralAktiv façade paint) can be applied after a drying time of at least 5 frost-free days. A minimum drying time of 12 hours and a maximum of 7 days is necessary between coats.

Only frost-free days are to be taken into account for the drying time. After application, there may not be a prolonged frost extending over several days.

<b>Caution</b>	In case of following coatings on SM600 Sprint with other finish coats than Noblo 600 Sprint, the general drying times must be observed.
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<b>Notes</b>	<p>For application as an adhesive, basecoat and top coat, the National Technical Approval / general type approval for the corresponding Knauf WARM WALL Sprint system must be observed.</p> <p>Renders must be applied according to EN 13914, DIN 18550, DIN 55699, DIN 18345, DIN 18350 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> <p>When used in interiors, the heating in the rooms should only be put into operation in stages. Rapid dehumidification, e.g. using dehumidifiers should be avoided.</p>
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## Plinth application

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. Apply as a plaster seal / moisture protection, apply Sockel-Dicht Sprint in a layer thickness of at least 1.1 mm (dry layer thickness min. 1 mm).

When sufficiently dry, apply a protective cover against damage (e.g. fleece laminated dimpled sheet and slip membrane).

<b>Note</b>	In order to prevent rapid dehumidification of the fresh render 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.
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## Application time

At  $+20\text{ °C}$  and 65 % relative humidity after approx. 1 hour. At higher temperatures shorter application times can be expected and at low temperatures longer application times. Do not use or mix additional water to dilute material once it has started setting.

## Application and drying time temperature / climatic conditions

The substrate and air temperatures during application may not drop below  $+1\text{ °C}$  or exceed  $+30\text{ °C}$  for up to 6 hours afterwards.

Six hours after application, the temperature can drop to below freezing. An interim reduction to a maximum of  $-5\text{ °C}$  is permissible. The temperature must not fall below  $-5\text{ °C}$ .

## Cleaning

Clean the equipment and tools with water immediately after use.

## Technical data

Description	SM600 Sprint	Unit	Standard
Reaction to fire	A2-s1, d0	Category	DIN 13501-1
Grain size	1.0	mm	–
Compressive strength	CS III	Category	EN 1015-11
Capillary water absorption	W <sub>c</sub> 2	Category	EN 1015-18
Water vapour diffusion resistance μ	≤ 20	–	EN 1015-19
Thermal conductivity λ <sub>10,dry,mat</sub> at P = 50 %	≤ 0.33	W/(m·K)	EN 1745
P = 90 %	≤ 0.36	W/(m·K)	

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

## Material requirement / efficiency

	Coat thickness mm	Consumption approx. kg/m <sup>2</sup>	Yield approx. m <sup>2</sup> /bag
Adhesive (40% adhesive surface)	5.0	2.0	12.5
Adhesive (100% adhesive surface)	5.0	5.0	5.0
Reinforcement basecoat WARM WALL	5.0 – 7.0	5.5 – 7.7	4.5 – 3.2
Reinforcement render on basecoat	4.0	4.4	5.7
Render finish (sponged)	3.0	3.0	8.3
Render bonding layer	5.0	4.0	5.6

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 variants

Description	Application	Packaging unit	Material number	EAN
SM600 Sprint	25 kg	42 bags/pallet	00739502	4003950140129
	Bulk	–	00774442	4003950143250

## Sustainability and environment

Short description	Comment	Unit	Value
AgBB scheme	Version 2021	–	fulfilled
French emissions class	Version modified in 2012	–	A+
EPD Environmental Product Declaration	–	–	EPD-VDP-20230401-IB01-DE



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