

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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Plaster and Façade Systems

P238.de

Product Data Sheet

2018-07



Conni S

Silicone resin plaster with floated render structure

Product description

Ready-to-use, paste-like silicone resin plaster for non-directional textures with a floated render structure. With the appropriate tools, structured effects such as rustic plaster or trowel finish plaster can be implemented.

Composition

Silicone resin emulsion, synthetic resin emulsion, graded marble graining and silica sand, special admixtures, water additives, preservatives and light fast colour pigments.

Storage

Protect against frost, high temperatures and exposure to direct sunlight. The material can be stored for approx. 24 months in the original container in a cool and frost-free environment. Close opened buckets airtight.

Quality

In compliance with EN 15824, the product is subject to initial type testing and continuous factory production control and bears the CE marking. External monitoring compliant with certification is implemented.

Properties and added value

- Paste-like ready-to-use finishing coat acc. to EN 15824
- Ready-mixed
- High resistance to weather influences
- Resistant to soiling
- Highly vapour permeable
- Highly water-repellent
- Retards and prevents the formation of mould and algae
- For exterior use
- Colour shade white (approximately RAL 9010)
- Can be pigmented with Knauf ColorConcept colour shade selector card

Field of application

- On Knauf WARM WALL systems
- On lime renders and lime-cement renders for exteriors
- On organic reinforcement mortars such as Pastol and Pastol Dry

Application

Substrate and pretreatment

Substrate	Pretreatment
Renders of mortar group P II and P III	Apply a primer coating with Quarzgrund Pro or Isogrund after a corresponding drying time.
Basecoat, e.g. SM700 Pro, SM300	Apply Quarzgrund Pro when fully dry, at the earliest after 10 days drying time
Reinforcement, e.g. Pastol	With pigmented Conni S, a primer coat of Quarzgrund Pro in an approximately similar colour shade of the finishing plaster is recommended.
Non-stable paint coats	Remove completely
Render hollows and cavities	Remove completely and fill with a suitable render, observe the drying times, apply a Quarzgrund Pro primer
Concrete, bonded coats and stable old render layers	Clean with a high-pressure water cleaner until dust-free and allow to dry completely, apply Quarzgrund Pro

When pigmented Conni S is used, it is recommended that a primer coat of an approximately similar colour shade is used to prevent the substrate shimmering through.

Preparation

Check substrate for compliance with VOB part C, DIN 18350, DIN 18345 chapter 3.1 and/or according to VOB part B, DIN 1961 paragraph 4 no. 3. Clean the substrate of dust and loose parts and ensure 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 fresh coats from the effects of moisture, e.g. from precipitation and from the effects of rapid water loss, e.g. by exposure to direct sunshine or strong wind, by protecting with suitable measures such as protective nets.

Preparation of the substrate in accordance with the table "Substrate and pretreatment". Allow to dry for at least 12 hours before further applications. 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. Basecoats and adhesive must be fully dry and set before the application of Conni S. Use of a reinforcing mesh is recommended on the basecoat with Conni S for graining of 1.5 mm and smaller.

Machines / equipment

- Knauf PFT SWING L
- Knauf PFT K 2 N air compressor
- Supply hose

Ø 25 mm

Product application

The colour shade should be verified before application. When using pigmented Conni S on optically connected plastered surfaces, only apply materials with the same batch number (when reordering please supply the order number of the previous delivery) or mix together materials from different batches. Conni S must be stirred with an agitator. If necessary, a small quantity of water may be added to set the application consistence.

To avoid fins / protrusions, a sufficient number of workers must be present on every scaffolding level as well as to ensure speedy "fresh-in-fresh" application.

Manual application

Conni S is applied over the entire surface in grain thickness with a stainless steel trowel, and directly after application it is worked uniformly and without interruption to the desired texture using a hard plastic trowel. The type of tool used influences the surface roughness and it is therefore essential to use the same tool for a consistent finish. If necessary, Conni S can have a top coat of Autol or Fassadol applied.

Machine application

Conni S can be machine applied with a conventional fine plastering machine.

Reinforcement

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

On thin-layer final coats with a grain size of up to 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.

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).

An additional full surface mesh reinforcement should always be preferred instead of partial surface reinforcement.

Full surface reinforcement in exteriors

With freely textured, brushed surfaces or textured plasters where the grain size is less than 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, an additional full surface mesh reinforcement (reinforcing mesh 4x4 or 5x5 mm) with SM700 Pro, SM300 or Lustro is strongly recommended on the hardened basecoat.

Plinth application

Seal all plastered surfaces with contact to the soil up to approx. 50 mm above the ground line against moisture acc. to DIN 18533. For this purpose, Sockel-Dicht plinth sealing can be applied with a thickness of at least 2.5 mm (double-layer). Apply a fleece laminated dimpled sheet after drying.

Drying time

Conni S physically dries by the evaporation of water. With suitable weather conditions, Conni S can be worked on again after 24 hours at the earliest. Conni S is fully dry after approx. 14 days. The drying time will be extended with unsuitable temperatures / air humidity.

Application temperature / climate

Do not apply at material, air and/or substrate temperatures below + 5 °C. Do not apply Conni S onto substrates that have heated up.

Note

When using the film forming accelerator TS Mix, application is possible at temperatures from +1 °C to maximum +15 °C. The ambient relative humidity may not exceed 90 %. Add 1 bottle of TS Mix (200 ml) to a 25 kg bucket of Conni S and carefully mix with an agitator and subsequently apply.

Cleaning

Clean the machines and tools with water immediately after use.

Notes

Plaster must be applied according to EN 13914-1, DIN 18550 and DIN 18350, VOB part C as well as the generally recognized building engineering rules and valid guidelines.

Slight changes in colour or slight differences in colour hues can occur due to the use of natural aggregates as well as the physical drying process in different weather and ambient conditions. An additional paint coat is recommended with intensive colour hues.

Should dark coloured surfaces be exposed to high mechanical loading, the colour may change at affected locations (crazing). This does not affect the product quality and functionality.

Conni S is formulated to control and inhibit growth of algae and fungi. It is not possible to permanently prevent the formation of algae and fungal growth.

Observe Code of Practice no. 26 "Farbveränderungen von Beschichtungen im Außenbereich - Colour changes in exterior coatings" of the Bundesausschuss Farbe und Sachwertschutz (Federal Paint and Property Protection Committee) (German only).

Reinforcement in dependence on the basecoat and luminosity of the final coating

Finish coat	Graining	Luminosity of the final coating						Fassadol TSR ¹⁾ < 20 to 0
	mm	100 to 30	29 to 25	24 to 20	19 to 15	14 to 10		
Conni S	1.0 ¹⁾	•	•	•	•••	•••	•	
	1.5 – 2.0	•	•	•	•••	•••	•	
	3.0	•	•	•	••	•••	•	

1) White finishing plasters should be used when applying Fassadol TSR, apply a double coat

Reinforcement: • single layer •• double-layer ••• double-layer, only small surfaces, larger surfaces on request

Technical data

Description	Unit	Value	Standard
Reaction to fire	Class	A2-s1, d0	EN 13501-1
Density	kg/dm ³	approx. 1.8	EN ISO 2811-1
Water vapour permeability	Category	V ₁ (high)	EN ISO 7783-2
Water absorption	Category	W ₃ (low)	EN 1062-3
Bond strength	MPa	≥ 0.3	EN 1542
Durability (frost resistance): Permeability w	kg/(m ² ·h ^{0.5})	≤ 0.5	EN 1062-3
Thermal conductivity λ _{10,dry,mat}	W/(m·K)	0.7	EN 1745

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

Material requirement and efficiency

Application	Coat thickness mm	Consumption approx. kg/m ²	Yield approx. m ² /bucket
Conni S 1.0	1.5	1.6	15.6
Conni S 1.5	1.5	2.2	11.4
Conni S 2.0	2.0	2.8	8.9
Conni S 3.0	3.0	3.7	6.8

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

Product range

Product name	Application	Graining	Packaging unit	Material number	EAN
Conni S 1.0	25 kg	1.0 mm	24 buckets/pallet	00054595	4003950029851
	25 kg pigmented			00477772	4003950097522
Conni S 1.5	25 kg	1.5 mm		00040950	4003950019548
	25 kg pigmented			00477773	4003950097539
Conni S 2.0	25 kg	2.0 mm		00040951	4003950019555
	25 kg pigmented			00044794	4003950054891
Conni S 3.0	25 kg	3.0 mm		00040952	4003950019562
	25 kg pigmented			00477774	4003950097546

Please refer to the Farbcenter (colour center) for possible colour shades (German only) at:

www.knauf-farbcenter.de



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