

## Note on English translation / Hinweise zur englischen Fassung

This is a translation of the technical 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

## P238.de



Plaster and Façade Systems

2012-04

# Knauf Conni S

## Silicone resin plaster with floated render structure

### Product description

Ready-mixed, paste-like silicone resin finish top coat 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.

#### Order information

25 kg bucket

#### Conni S (floated render structure)

Grain size 1.0 mm	Material no. 00054595
Grain size 1.5 mm	Material no. 00040950
Grain size 2.0 mm	Material no. 00040951
Grain size 3.0 mm	Material no. 00040952
Pigmented (ColorConcept colour shade selector card)	

Material no. 00044794

### Storage and transport

Protect against frost, high temperatures and direct exposure to sunlight.

The material can be stored for up to 24 months in the original container in a cool, frost-free environment (+5 °C to +25 °C).

#### Quality

The product is subject to continuous quality monitoring and bears the CE markings.

### Field of application

- System-tested compatible finishing plaster for ETICS
- Finishing coat on mineral-based plasters of mortar group P II and P III
- Finishing coat on organic reinforcement materials, such as Pastol

### Properties and added value

- Ready-to-use finishing coat acc. to DIN EN 15824
- Ready-to-use
- Highly resistant to weather influences
- Resistant to soiling
- Highly diffusion permeable
- Highly water-repellent
- Retards and prevents the formation of mould and algae
- Exterior application
- White (approx. RAL 9010)
- Limited colour shading with Knauf ColorConcept colour shade selector card

# P238.de Knauf Conni S

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## Application

Substrate	Pre-treatment
Renders of the mortar group P II and P III	Apply a primer coating with Quarzgrund after a corresponding drying time. <sup>1)</sup>
Basecoat, e.g. SM700 Pro, SM300	Apply Quarzgrund when fully dry, at the earliest after 10 days drying time. <sup>1)</sup>
Reinforcement, e.g. Pastol	With pigmented Conni S, a primer coat of Quarzgrund in an approximately similar colour shade is recommended.
Non-stable paint layers	Remove completely
Plaster hollows and cavities	Remove completely and fill with a suitable plaster, observe the drying times, apply a Quarzgrund primer. <sup>1)</sup>
Concrete, bonded coats and stable old plaster layers	Clean with a high-pressure water cleaner until dust free and allow to dry completely, apply Quarzgrund. <sup>1)</sup>

<sup>1)</sup> When pigmented Conni S is used, it is recommended that a primer paint of an approximately similar colour shade is used to prevent the substrate shimmering through.

### Preparation

Cover easily-soiled building components before commencement in accordance with Code of Practice "Abklebe- und Abdeckerarbeiten 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 the exposure to direct sunshine, strong wind, by protecting with suitable measures such as protective nets.

All substrates must be stable, dry, even and free of grease and dust as well as free of any residue that may reduce adhesion.

Check the stability of existing coatings (paint coatings and old plasters) and compatibility with Conni S and remove completely if necessary.

Basecoats and adhesive must be fully dry and set before the application of Conni S. Wet or non-fully set basecoats can cause damage in the following layers.

Preliminary coatings / primers must dry for at least 12 hours before the next coat is applied.

A primer coat with pigmented Quarzgrund is necessary for colour shades with organic pigments on freshly applied basecoats after a minimum of at least 14 days and on reinforcing basecoat layers after 5 days drying time! Use of a reinforcing mesh is recommended on the basecoat with graining ≤ 1.5 mm.

### Application

The colour shade should be verified before ap-

lication.

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. Conny S must be stirred with an electric agitator. When necessary, a small quantity of water may be added to set the application consistency. 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 finish paint of Autol or Fassadol applied. Conni S can be machine applied with a conventional fine plastering machine.

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. Clean the machines and tools with water immediately after use.

### 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 18195. 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.

### Machines / equipment

Knauf PFT SWING L  
Knauf PFT K 2 N air compressor  
Supply hose Ø 25 mm

### 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 Conni S at material, air and/or substrate temperatures below + 5°C. Do not apply Conni S onto substrates that have heated up. The application of Conni TS is recommended with cold and damp weather (min. 1 °C up to max. 15 °C, max. relative air humidity 85 %).

### Special notes

Plaster must be applied according to DIN EN 13914, DIN V 18550, DIN 55699 and VOB part C (DIN 18345 / 18350 / DIN 18363).

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 coat of paint is recommended with intensive colour hues.

Conni TS and Conni S may vary with regard to the behaviour of the colour hue and the surface. Simultaneous use of both materials on a façade surface should be avoided.

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).**

### Safety notes and disposal

See safety data sheet.

## Reinforcement in dependence on the finishing plaster and luminosity of the final coating

Finishing plaster	Graining mm	Luminosity of the final coating				
		100 to 30	29 to 25	24 to 20	19 to 15	14 to 10
Conni S	1.0 <sup>1)</sup>	●	●	○ / ○○	○○	○○
	1.5-2.0	●	●	●	○ / ○○	○○
	3.0	●	●	●	○ / ●●	○○

Reinforcement: ● single layer ○ single layer, only on basecoat SM700 or SM700 Pro  
●● double layer ○○ double layer, only small surfaces, larger surfaces on request

<sup>1)</sup> An additional equalization layer consisting of a basecoat without reinforcement mesh on the existing reinforcement layer is recommended

# P238.de Knauf Conni S

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## Technical data

DIN EN 15824

Density:	approx. 1.8 kg/dm <sup>3</sup>	DIN EN ISO 2811
Water vapour transmission:	V <sub>1</sub> high	DIN EN ISO 7783-2
Water absorption coefficient	W <sub>3</sub> low	DIN EN 1062-3
Bond strength:	≥ 0.3 MPa	DIN EN 1542
Durability (frost resistance) permeability:	w ≤ 0.5 kg/(m <sup>2</sup> ·h <sup>0.5</sup> )	DIN EN 1062-3
Thermal conductivity λ <sub>10,dry,mat</sub> :	0.70 W/(m·K)	DIN EN 1745
Reaction to fire when used on mineral substrates:	B	Not easily flammable DIN EN 13501-1

## Note

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

## Material requirement / consumption

	Coat thickness	Consumption	Yield
	in mm	in kg/m <sup>2</sup>	m <sup>2</sup> /bucket
Conni S 1,0	1.5	1.6	15.6
Conni S 1,0 (freely styled texture)	2.0 - 3.0	3.5	7.1
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.*

## Knauf Direct

Technical Advisory Service:

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▶ [www.knauf.de](http://www.knauf.de)

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