

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

P238.de

Product Data Sheet

2022-01



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-based renders, lime-cement renders for outdoors
- On organic reinforcement mortars, such as Pastol and Pastol Dry

Application

Substrate and pretreatment

| Substrate | Pretreatment |
|---|---|
| Lime plasters and lime/cementitious plasters | Apply a primer coating with Quarzgrund Pro after a corresponding drying time. In case of intensive colour shades, Casiol Grund is recommended instead of Quarzgrund Pro |
| Base coat, e.g. SM700 Pro, SM300 | Apply Quarzgrund Pro when fully dry, at the earliest after 10 days drying time. In case of intensive colour shades, Casiol Grund is recommended instead of Quarzgrund Pro |
| Reinforcement mortar, 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 |
| Plaster 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. The application consistence can be set by adding a small quantity of water when necessary.

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 required, 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. Now roughen the reinforcement plaster 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. In 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 18550-1 and DIN 18350, VOB part C as well as the generally recognized building engineering rules and valid guidelines.

Slight changes in the colour shade or minor colour shade differences can result due to the contained natural aggregates as well as due to the physical drying process in diverse weather and ambient conditions. An additional coat is recommended for intensive colour shades.

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 (German Paint and Property Protection Committee) (German only).

Reinforcement in dependence on the basecoat and luminosity of the finishing coat

| Render finish | Graining mm | Luminosity of the final coating | | | | | Fassadol TSR ¹⁾ < 20 to 0 |
|---------------|-------------------|---------------------------------|----------|----------|----------|----------|---|
| | | 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 | Standard | Unit | Conni S |
|--|---------------|--|------------------------|
| Reaction to fire | EN 13501-1 | Class | A2-s1, d0 |
| Density | EN ISO 2811-1 | kg/dm ³ | approx. 1.8 |
| Water vapour permeability | EN ISO 7783-2 | Category | V ₁ (high) |
| Water absorption | EN 1062-3 | Category | W _c 3 (low) |
| Bond strength | EN 1542 | MPa | ≥ 0.3 |
| Durability (frost resistance): Permeability w | EN 1062-3 | kg/(m ² ·h ^{0.5}) | ≤ 0.5 |
| Thermal conductivity λ _{10,dry,mat} | EN 1745 | W/(m·K) | 0.7 |

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

| Description | 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 | 24 buckets / pallet | 00040950 | 4003950019548 |
| | 25 kg pigmented | | | 00477773 | 4003950097539 |
| Conni S 2.0 | 25 kg | 2.0 mm | 24 buckets / pallet | 00040951 | 4003950019555 |
| | 25 kg pigmented | | | 00044794 | 4003950054891 |
| Conni S 3.0 | 25 kg | 3.0 mm | 24 buckets / pallet | 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

**Observe 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:

youtube.com/knauf



The Knauf Infothek App 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.de/infothek

Knauf Direct

Technical Advisory Service:

knauf-direkt@knauf.com

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.