

Soltherm SFC-P+ 15

Silicone Render with Water Beading Effect with a 1.5 mm grain size /sand finish/

PROPERTIES:

- high impact resistance;
- high resistance to scratching;
- easy to apply and extended open time
- high flexibility;
- excellent resistance to atmospheric factors and microbial growth
- water beading effect

USE:

Decorative and protective thin-coat finish used in the SOLTHERM insulation systems. Suitable for interior and exterior applications. It provides a water-repellent coating, which is highly flexible, water vapour permeable, dirt and weather resistant. SOLTHERM SFC-P+ is suitable for ETICS systems or continuous insulation systems based on EPS and properly prepared mineral substrates (such as concrete, cement and lime-cement renders). SOLTHERM SFC-P+ rendering paste is extremely impact resistant (especially when combined with the dispersion adhesive SOLTHERM DA-P) and resistant to atmospheric factors such as wind, UV radiation, ozone, acid rains. Due to high content of premium components, the render has hydrophobic properties, which provide self-cleaning effect and make the coating durable.

APPLICATION:

Substrate preparation:

Follow the ETICS Instruction Manual no. IB/01/2001 to apply over the reinforced base coat in the insulation system. Other surfaces must be sound, even, clean of substances which can cause separation (such as dust, grease, bitumen) free of cracks as well as biological growth and chemical deposits. Remove loose, peeling or flaking paint or plaster. Fill gaps and imperfections /between 5 and -15 mm/ with the mortar SOLTHERM LRC and even out the entire surface with an appropriate SOLTHERM base coat. To smooth and even out the surface, use a suitable cement adhesive like SOLTHERM UB (universal adhesive), SOLTHERM BC-P (white universal low application temperature adhesive), SOLTHERM WB (grey universal low application temperature adhesive) or cement-free dispersion adhesive SOLTHERM DA-P of extreme impact resistance. Minor irregularities /up to 5 mm/ may be evened out at once with a SOLTHERM adhesive. In each case the purpose is to obtain a smooth and even surface. Even out the entire surface (to be overcoated) with a SOLTHERM adhesive. If the irregularities are not removed and the coat is not smooth, smooth over again when the first layer is dry. If substrate reinforcing is necessary, embed fibre glass mesh (min. weight 145 g/m²) in the adhesive. Prior to silicone render application, prime each surface with the render primer SOLTHERM SNP Colour, except when dispersion adhesive SOLTHERM DA-P is applied. Drying time of the primer under optimal ambient and weather conditions (i.e. at +20°C and 60% relative humidity) is min. 4-6h.

Product preparation:

Immediately prior to application, stir the full package thoroughly with a low-speed drill and jiffy mixer until a uniform mixture. Do not over-mix as this may introduce and entrap air into the mortar. The product is supplied as a pre-mix, do not admix any additives or other components. NOTICE: Under hot weather conditions, it is possible to adjust consistency by thinning render with a small amount of water – approx. 330 ml/25 kg. However, do not exceed the render consistency of 12 cm on the slump cone. What is more, thin each package to be applied to an individual wall surface, with the same amount of water to have a consistent colour and finish.

Product use:

Spread evenly a thin coat of rendering paste over the substrate using a stainless steel flat trowel. Rub off to the grain size with a small stainless steel trowel (the removed material can be re-used after re-mixing). Rub over texture with a plastic trowel in tight circular motions to seal the texture and provide the desired consistent finish. Do not apply excessive pressure.

Limitations:

- Porous surfaces, which were evened out with SOLTHERM LRC or other listed herein, should be primed with SOLTHERM SP, prior to render application.
- Fresh mineral substrates (such as concrete, cement and lime-cement renders) should be allowed to cure for 3-4 weeks before substrate preparation and render application.
- Prior to render application, prime each surface with the render primer SOLTHERM SNP Colour, except when dispersion adhesive SOLTHERM DA-P is applied.
- Prime only dry surfaces once the setting and curing time, recommended for the substrate, has finished.
- Prior to coloured silicone render application, prime the surface with the render primer SOLTHERM SNP Colour in colour matching the render colour.
 - Allow the primed surface to dry (min. 4-6 h when drying under optimal conditions) and start render application once the surface has dried. As optimal conditions we take the temperature of +20°C and 65% relative humidity
- Before application, organise labour (take into consideration number of installers, their skills, equipment, surface condition and weather conditions) to operate most effectively, ensuring that the planned wall area can be completed in one operation.
- Application and curing should take place in rainless weather, ambient temperature between +5°C and +25°C and stable humidity.
- Apply the render at surface temperature from +5°C to +25°C. Make sure that the render is not applied in direct sunlight and wind.
- Fresh coatings must be protected against rain and temperature below +5°C and above +25°C until they are set.
- During render application, it is recommended to cover the scaffolding with mesh to protect against atmospheric factors.
- Once the job is completed tightly seal the container and use the remnant paste shortly.

Precautions:

- Protect skin and eyes during application operations.
- In case of eye contact, flush eyes with plenty of water and seek medical advice.

Recommendations:

- The silicone rendering paste is made from natural components. To obtain optimal appearance apply on an individual wall surface from one end to the other without interruptions with the use of materials from the same batch.
- We do not recommend application of intense dark colours on large surfaces with a sunny exposure due to increased absorption of solar radiation (heat and UV), what may deteriorate the finish effect and use properties of the render.

Tools:

- Agitator or low-speed drill (400÷500 rpm) with jiffy mixer
- Stainless steel flat trowel to coat the surface with paste
- Short stainless steel trowel to remove excess render
- Plastic trowel to provide the pattern

- Stainless steel spatula and masonry trowel
- Paper masking tape for separating rendered area and for seaming

TECHNICAL DATA:

- Operational parameters of the primer:
- Application temperature: from +5°C to +25°C
- Surface temperature: from +5°C to +25°C
- Density: 1.8 kg/dm³ ± 5%
- Workable consistency (measured with a slump cone): 10.0÷1cm
- Diffusion resistance: ≤ 0.1 m
- Surface absorption: ≤ 0.05 kg/m²x h
- Render thickness: matching aggregate size - approx. 1.5

/all technical data provided for the temperature of +20°C and 65% relative humidity/

COVERAGE:

Average yield of the render applied on properly prepared substrate is between 2.2 to 2.5 kg/m².

To determine precise yield, test the product on the substrate.

Usage is typical usage and may vary between installers. Coverage rates quoted for products will not be guaranteed under any circumstances. The rates quoted are based on site experience but may vary due to site conditions, operator skills etc. No claim will be allowed relating to coverage of materials.

DRYING TIME:

Optimal drying conditions is 20°C and 65% relative humidity. Under such conditions the drying time is from 24 to 48 h. High relative humidity and lower temperatures may extend the drying process.

STORAGE:

Store in intact original containers in temp. between +5°C and +25°C. Protect from excessive heat and frost. Shelf life of 18 months. Validity date: Date provided on the packaging.

COMPOSITION:

SOLTHERM SFC-P+ 15 is rendering viscous paste composed of silicone binders, natural fillers, modifiers and pigments.

COLOURS:

- Selected colours from the colour chart Soltherm SPEKTRUM 300+.