

SOLTHERM AF-P+ 20

Thin-coat Silicate-Silicone Render with a 2.0 mm grain size /sand finish/

PRODUCT DESCRIPTION:

- **increased resistance to:**
 - **algal and fungal growth**
 - **weather conditions**
 - **impact and thermal stress**
- **low water absorption**
- **extra flexible**
- **high colour stability**
- **wide colour range**
- **easy to work and trowel**
- **hand and spray applied**
- **component of the SOLTHERM ETICS systems with EPS**

USE:

SOLTHERM AF-P+ is a hand applied silicone and silicate ready-mixed render, which provides a decorative and protective thin-coat render finish to exterior walls of new and existing buildings and indoors.

Substrates for which the render is suitable:

- external thermal insulation composite systems (ETICS) with EPS boards/panels,
- mineral substrates such as: concrete, cement or cement-lime renders.

SUBSTRATE PREPARATION:

Follow the ETICS Instruction Manual no. IB/01/2001 to apply the base coat in the ETICS insulation systems.

The surface must be structurally sound, even, clean of surface contaminants such as dust, grease, bitumen and other barrier materials that may affect adhesion. Remove old paint coats, loose, peeling or flaking plaster. Prime absorptive surface (particularly aerated concrete) with the primer SOLTHERM SP. Even out minor irregularities with a base coat for embedding reinforcing mesh such as SOLTHERM UB. Fill larger gaps and imperfections with the mortar SOLTHERM LRC.

Prior to the application of the silicate-silicone render SOLTHERM AF-P+ 20, prime the surface with the render undercoat SOLTHERM SNP COLOUR of colour matching the render colour. Priming does not apply to the dispersive base coat adhesive SOLTHERM DA-P.

PRODUCT PREPARATION:

A ready-to-use product. Prior to application, stir the full packaging thoroughly with a low-speed mixing drill until a uniform mixture. Do not over-mix as this may introduce and entrap air into the paste.

NOTICE! In the summer, it is possible to adjust consistency by thinning the render with a small amount of water - 330 ml/ 25 kg of the render. Thin each container with the same amount of water. Do not admix, except for water.

APPLICATION:

Spread evenly a thin layer of stucco over the substrate using a stainless steel plastering trowel. Skim off excess mortar to the grain size with a small plastering 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. Remove excess stucco from the plastic trowel regularly using a putty knife.

LIMITATIONS AND RECOMMENDATIONS:

- We do not recommend application of dark colours (HBW < 30) to surfaces intensely exposed to sunlight due to increased absorption of solar radiation.

- Do not apply to areas subject to prolonged water exposure, accumulated snow and areas not damp-proofed against capillary action.
- Prior to application, cover or mask surfaces that are not to be rendered.
- Allow fresh cement and lime-cement renders to cure for minimum 28 weeks.
- Plan the surface area to be rendered taking into consideration weather conditions, surface type and workforce.
- To obtain optimal appearance apply on one continuous area without interruptions with the use of material from the same batch.
- Protect from direct sunlight exposure, precipitation and wind during application operation and drying. Use scaffolding meshes.
- Do not splash the freshly applied rendering with water.
- Low temperature, increased humidity and improper air circulation extend the drying time.
- Clean tools and hands with running water immediately after use. After drying difficulties with cleaning may be experienced.
- Before using, ventilate the room spaces until the odour disappears.
- Tightly seal the container and use the remnant product shortly.
- Use the paints SOLTHERM STC-P, SOLTHERM STC-P eco-shield or SOLTHERM STC-P+ to refresh the rendering.

PRECAUTIONS:

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

TOOLS:

- Agitator or low-speed mixing drill (400÷500 rpm) with hoop paddle.
- Stainless steel big and small plastering trowel or float
- Plastic trowel to provide the pattern
- Stainless steel putty knife
- Bucket
- Self-adhesive masking tape for separating rendered area and for seaming.

TECHNICAL DATA:

The following technical data are for the temperature of +23 (±2)°C and relative air humidity of 50 (±5)%. Under other conditions the technical data may vary.

Ambient and surface temperature at application and setting:

from +5°C to +25°C

Relative humidity at application and setting:

up to 80%

Density:

approx. 1,91 g/cm³ (±10%)

Coefficient of heat conductivity λ (table value):

≤ 0.67 W/(m*K)

Diffusion resistance factor μ:

≤ 190

Vapour permeability according to EN ISO 7783-2:

Category V2

Water absorption according to EN 1062-3:

Category W3

Colour:

colour chart SOLTHERM 300+ Spektrum

other colours made to order according to the customer's colour chart

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Drying time:

min. 24h

Packaging:

25 kg

No. of containers per pallet and net weight:

24 unit / approx. 600 kg

Shelf life:18 months from the date of production provided on the packaging

NOMINAL COVERAGE:approx. $2.8 \div 3.4 \text{ kg/m}^2$

To determine precise coverage, perform a test patch on the surface.

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.

STORAGE:

Store in intact original containers in temp. between +5°C and +25°C. Protect from direct sunlight and frost. Store away from the reach of children.

COMPOSITION:

Organic binders, silicates, natural fillers, modifiers, pigments, hydrophobic agents and biocides.

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