

SOLTHERM WS

Decorative Finishing Render

PRODUCT DESCRIPTION:

- frost and water resistant
- water vapour permeable
- easy to prepare, work and apply
- water repellent
- microfibre reinforced
- fine grain size
- white cement based

USE:

SOLTHERM WS is a mineral, decorative render finish on which you can produce various patterns and effects such as: wood, stone, brick effect etc. using silicone mouldings. The mortar is suitable for interior and exterior applications.

Suitable substrates:

- EPS and mineral wool based ETICS
- mineral substrates such as: concrete, cement and lime-cement renders,
- gypsum, plasterboards, firm polymer based paint coats, wood look panels in internal areas.

SUBSTRATE PREPARATION:

Apply insulation up to base coat compliant with the ETICS manual no. IB/01/2001 and finish with SOLTHERM WS.

Walls, which are not insulated must be sound, even, clean of dust, grease, bitumen, algae and other barrier materials. Remove any loose or friable material, peeling or flaking paint. Prime porous surfaces (aerated concrete in particular) with the SOLTHERM SP Primer. Level minor gaps and imperfections with an adhesive for embedding glass fibre mesh such as SOLTHERM UB. Larger gaps and imperfections fill with SOLTHERM LRC repair mortar. Minor irregularities in interiors may be even out using a joint compound SOLTHERM GF or SOLTHERM Presto acryl. Prior to render application, prime surface with the primer SOLTHERM T.

PRODUCT PREPARATION:

Measure the clean water (5 litres per 25 kg bag) into a suitable vessel/bucket and add the powder while mixing using or a low-speed drill until a homogeneous consistency is achieved. Allow to stand for 5 minutes then re-mix. The mixture is ready to use. Add the same amount of water to each container. Do not admix except water. Prepare SOLTHERM WS immediately prior to application, it is workable for 1.5 h.

APPLICATION:

Since pattern production may be complex, the details for each effect and pattern have been provided in separate instruction manuals.

LIMITATIONS AND RECOMMENDATIONS:

- The render should be applied solely by a qualified and experienced installer.
- Do not apply to areas subject to prolonged water exposure, accumulated snow and areas not damp-proofed against capillary action. Do not apply to plinth areas.
- Before application, cover or mask surfaces that are not to be rendered.
- Plan the surface area to be rendered taking into consideration weather conditions, surface type and workforce.
- Water for mixing the powder must be carefully measured otherwise the consistency obtained may not be suitable for pattern imprinting.

- Protect from direct sunlight exposure, precipitation and wind during application operation.
- Low temperature, increased humidity and improper air circulation extend the drying and setting time of the render.
- Clean tools and hands with running water immediately after use. After drying difficulties with cleaning may be experienced.
- Wipe new stains off soiled surfaces with damp cloth. Hard stains may be removed only mechanically.
- Protect the wall against precipitation and exposure to sunlight until initial setting but ensure that moisture can evaporate.
- It is not recommended to apply rendering without a clear texture since shrinkage cracks may appear on large areas exposed to high temperatures.

PRECAUTIONS:

Due to alkyd reaction of the product, avoid contact with skin and eyes. In case of eye contact, flush eyes with plenty of water and seek medical advice.

TOOLS:

- Agitator or low-speed drill (400÷500 rpm) with jiffy mixer
- Stainless steel scraper or a small brick trowel
- 8 to 10 mm stainless steel trowel
- Stainless steel straight edge trowel
- Silicone texture mouldings
- Bucket
- Masking tape
- Grout scraper

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 drying and setting:

up to 80%

Colour:

white

Grain size:

≤ 0.5 mm

Optimum coat thickness:

3÷4 mm

Maximum coating thickness:

15 mm

Workability:

≤ 1.5h

Compressive strength according to PN-EN 998:-2

≥ 5 MPa

Vapour permeability coefficient μ according to PN-EN 998:-2

15/35 (table value)

Coefficient of heat conductivity μ according to PN-EN 998:-2

≤ 0.83 W/(m*K)

Water absorption according to PN-EN 998:-2

≤ 0.05 kg/(m²*h^{0.5})

Packaging:

25 kg bags

No. of containers per pallet and weight:

48 / ca. 1200 kg

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Shelf life:

12 months from the date of production provided on the packaging

NOMINAL COVERAGE:

ca. 1.5 kg/m² per 1 mm thick coat

Coverage may vary depending on surface roughness, render thickness and texture. To determine precise coverage, perform a test patch on the surface.

STORAGE:

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

COMPOSITION:

Cementitious mixture with polymers and water repellents.

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