

Soltherm MTC 20

Fine Mineral Hand Applied Render Finish with a 2.0 mm grain size /sand finish/

USE:

It provides decorative and protective thin-layer finish coats indoors and outdoors. The top coat it forms is extremely durable, vapour permeable and weather resistant. The product can be used to apply a mineral and attractive finish coat of a texture reminding the traditional sand finish. The render is suitable for ETICS systems (based on EPS and mineral wool) and properly prepared mineral substrates (such as concrete, cement and lime-cement renders).

SURFACE PREPARATION:

The surface 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 the adhesive SOLTHERM UB (alternatively WB or BC-P as necessary). Minor irregularities /up to 5 mm/ may be evened out at once with the adhesive SOLTHERM UB (alternatively WB or BC-P as necessary). In each case the purpose is to obtain a smooth and even surface. Even out the entire surface with the adhesive SOLTHERM UB (alternatively WB or BC-P as necessary). If the irregularities are not removed and the coat is not smooth, smooth over again when the first layer is dry. Next, prime the substrate with the render primer SOLTHERM AP Colour (or alternatively with the SOLTHERM AP primer as specified in the product technical data sheet).

If substrate reinforcing is necessary, embed fibre glass mesh (min. weight 145 g/m²) in the adhesive. Follow the ETICS Instruction Manual no. IB/01/2001 to apply over a reinforcing coat of the insulation system.

Prior to mineral render application prime each surface with the render primer SOLTHERM AP Colour (or alternatively in case of light-colour surfaces, with the BOLIX AP primer).

Drying time of the primer under optimal ambient and weather conditions (i.e. at temperature +20°C and 60% relative humidity) is min. 4-6h.

PRODUCT PREPARATION:

Measure the water (5.25 ÷ 5.75 l) into a suitable container and slowly add the adhesive while mixing using an agitator or a low-speed drill and Jiffy mixer until a homogeneous consistency is achieved. After 10 minutes and another stirring, the mixture is ready to use. Depending on the temperature and humidity, the mortar is workable for 1.5 h. Preparation and application operations as well as drying require ambient and surface temperature from 5°C to +25°C. Make sure that water dosage for each mortar package is the same. The product is supplied as a pre-mix, do not admix any additives or other components.

PRODUCT DESCRIPTION:

Spread evenly a thin layer of render over the primed substrate using a stainless steel flat trowel. Rub off to the grain size with a stainless steel trowel. Rub over texture with a plastic trowel in tight circular motions to seal the texture and provide the desired consistent finish. To change the colour of the render, paint with SOLTHERM exterior paints /refer to descriptions on paint packaging, in the instruction manual and technical data sheets/ once the render has set.

LIMITATIONS:

- Make sure that the substrate is even and well-prepared.
- Prior to smoothing down with SOLTHERM LRC or SOLTHERM UB (alternatively WB or BC-P as necessary) prime porous mineral substrate with SOLTHERM T.
- Fresh mineral substrates (such as concrete, cement and lime-cement renders) should be allowed to cure for 3-4

weeks before substrate preparation and mineral render application.

- Prime every surface prior to render application.
- Prime only dry surfaces once the setting and curing time, recommended for the substrate, has finished.
- 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 60% 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.
- Render application should take place in rainless weather, temperature between +5°C do +25°C and stable humidity.
- Apply the render at surface temperature from +5°C to +25°C
- 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 unfavourable weather conditions.

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.

RECOMMENDATIONS:

The render is composed from natural components, and to obtain desirable decorative finish, apply under stable weather conditions on one whole surface and in a continuous motion, using materials from the same batch. The same batch would constitute a product of the same production date or not more than +/- 4 days.

TOOLS:

- Agitator or a low-speed drill (400÷500 rpm) with jiffy mixer,
- Stainless steel flat trowel to coat the surface with slurry
- Stainless steel trowel to remove excess render
- Plastic trowel to provide the pattern
- Stainless steel spreader and masonry trowel
- Masking tape for separating rendered area and for seaming

TECHNICAL PARAMETRES

Application temperature: from +5°C to +25°C
 Surface temperature: from +5°C to +25°C
 Bulk density: approx. 1.70 kg/dm³
 Render thickness: matching aggregate size

COVERAGE:

Average yield of the render applied on properly prepared substrate is between 3.0 to 3.5 kg/m². To determine precise yield, perform a test patch 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

STORAGE:

Protect intact original containers from damp during transportation and storage. Shelf life up to 12 months from the date of production provided on the packaging. Store away from the reach of children.

COMPOSITION:

The render finish SOLTHERM MTC 15 is a dry mixture of hydraulic binders, polymers, mineral fillers and modifiers.

COLOUR:

White