

SOLTHERM MTC 20

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

PRODUCT DESCRIPTION:

- white
- high vapour permeability - breathing
- excellent adhesion to mineral substrates
- increased resistance to:
 - algal and fungal growth
 - weather conditions
- component of the SOLTHERM ETICS systems with EPS and mineral wool panels

USE:

SOLTHERM MTC 20 is a hand applied mineral 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 and mineral wool 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 SOLTHERM MTC 20 application prime the surface with the render undercoat SOLTHERM AP COLOUR in white.

PRODUCT PREPARATION:

Measure the clean water (5.25 ÷ 5.75 litre) into a suitable vessel/bucket and slowly add the adhesive while mixing using a low-speed drill until a homogeneous consistency is achieved. After 10 minutes and another stirring, the mixture is ready to use. Add the same amount of tap water for each packaging. 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 mortar from the plastic trowel regularly using a putty knife.

LIMITATIONS AND RECOMMENDATIONS:

- 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.

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 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 after mixing with water:
approx. 1.55 g/cm³ (±10%)

Workability:
≤ 1,5h

Coefficient of heat conductivity λ according to PN-EN 1745:
≤ 0.47 W/(m*K) for P=50%
≤ 0.54 W/(m*K) for P=90%

Diffusion resistance factor μ:
≤ 15

Vapour permeability according to PN-EN ISO 7783-2:
Category V1

Water absorption according to PN-EN 1062-3:
Category W2

Colour:
white

Drying time:
min. 24h

Packaging:
25 kg bag

No. of containers per pallet and net weight:
48 unit / approx. 1200 kg

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

SOLTHERM MTC 20

**Thin-coat Mineral Render
with a 2.0 mm grain size /sand finish/**

NOMINAL COVERAGE:

approx. 2.5 ÷ 3.2 kg/m²

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

CURING TIME OF THE RENDER PRIOR TO PRIMING AND PAINTING:

Paint name	Primer	Minimum curing time of the fresh rendering prior to priming and painting
*SOLTHERM ACP and SOLTHERM ACP eco-shield acrylic	SOLTHERM SP	14 days
SOLTHERM STPT silicate	SOLTHERM STP	4 days
SOLTHERM STC-P/ STC-P eco-shield/ STC-P+ silicone	SOLTHERM SNP	4 days

*not suitable for ETICS based on mineral wool.

To increase durability and reduce dirt on mineral SOLTHERM MTC white render coats, we recommend overcoating with SOLTHERM exterior paints.

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 damp. Store away from the reach of children.

COMPOSITION:

It is a mixture of hydraulic binders, polymers, mineral fillers and modifiers.

BOLIX S.A. guarantees product quality but has no control over its application and use. BOLIX takes no responsibility for contractors' and distributors' performance. The information supplied herein is given in good faith based on our current knowledge and latest application methods. The information provided cannot replace designer's and contractor's expertise and does not dismiss anyone from observing good practice and the OHS regulations. Should you have any further queries, carry out the tests or contact SOLTHERM Customer Technical Support. The publication of this Technical Data Sheet renders older editions invalid.