

SOLTHERM DA-P

Ready-Mixed Micro-Fibre Reinforced and Cement-Free Base Coat for embedding fibreglass mesh on EPS boards

PRODUCT DESCRIPTION:

- **micro-fibre reinforced - high resistance to cracking and crazing**
- **extreme:**
 - **impact resistance - even over 130 J - in the SOLTHERM HD ULTIMATE system**
 - **flexibility**
- **high hydrophobic properties,**
- **easy to work and trowel,**
- **can be coloured,**
- **does not require priming prior to render application**
- **suitable for EPS boards**

USE:

SOLTHERM DA-P is a base coat used to embed glass fibre mesh in ETICS insulation systems and to retrofit the existing external wall insulation systems based on polystyrene.

When combined with the meshes SOLTHERM HD 335/P and SOLTHERM HD 158/S and the silicone render water beading or "pearl" effect SOLTHERM SFC-P+, the system achieves extreme impact resistance exceeding 130 J - SOLTHERM HD ULTIMATE. This system is a perfect solution for walls exposed to mechanical damage such as: parking areas, entrance areas, plinths, first-floor levels of the buildings in dense developments.

SUBSTRATE PREPARATION:

Rasp the bonded EPS boards with coarse sandpaper or an abrasive rasp, remove the sanding dust and fix with mechanical fixings (optional, according to the insulation design). Apply a SOLTHERM cementitious base coat mortar or SOLTHERM DA-P over the washer plates of mechanical fixings. Install corner trims or beads, window profiles, movement beads, diagonal mesh strips at the corners of door and window openings using a SOLTHERM cementitious base coat mortar or SOLTHERM DA-P and allow to dry. The surface of the bonded insulation boards must be even and continuous. Fill any interstices or gaps between insulation boards with polystyrene wedges matching coat thickness or low-pressure installation foam.

NOTICE:

If powdery deposit appears on the surface of insulation boards or the boards are exposed to sunlight for more than 7 days, they need to be sanded and cleaned of the dust.

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 base coat with a small amount of water - 250 ml/25 kg of the slurry. Thin each container with the same amount of water. Do not admix, except for water.

APPLICATION:

Use a notched trowel (6-8 mm notch size) to apply a continuous layer of the slurry over EPS boards to a uniform thickness of approx. 2 mm and immediately embed the fibreglass mesh into the adhesive so that it is evenly stretched and fully embedded in the base coat. Adjacent mesh strips should overlapped not less than 100 mm at mesh seams. The base coat surface should be even and smooth with no reinforcing mesh fabric

visible. If not, apply a second thin coat of the adhesive to smooth and even the surface. Reinforced base coat thickness should be between 2 – 4 mm.

The areas, which are susceptible to mechanical damage should have double mesh reinforcement embedded in the base coat, placed in opposite directions towards each other. Alternatively, the armour mesh strips SOLTHERM HD 335/P can be applied in the first layer, which must butt joint and not overlap. The armour mesh cannot be lapped over corners. The next mesh layer should be applied "wet on wet" or after initial drying of the first layer. Reinforced base coat thickness for this solution should be between 3 – 5 mm.

LIMITATIONS AND RECOMMENDATIONS:

- Not suitable for areas not damp-proofed against capillary action.
- Before application, protect or mask surfaces such as windows, doors, window sills, etc.
- Allow fresh cement and lime-cement renders to cure for minimum 28 weeks.
- Plan the surface area to be insulated taking into consideration weather conditions, surface type and workforce.
- Protect from direct sunlight exposure, precipitation and wind during application operation and drying. Use scaffolding meshes.
- When exposed to sunlight, the graphite-enhanced polystyrene heats up quickly, what can result in deformations of the insulation boards. Therefore, it is recommended to apply the SOLTHERM PTE compound reducing heat absorption by graphite-enhanced EPS and in consequence reducing its thermal deformation.
- It is not advisable to attach the glass fibre mesh without spreading the adhesive over insulation boards first.
- Do not reduce the base coat thickness, since it can substantially reduce the strength of the coat.
- Low temperature, increased humidity and improper air circulation extend the drying and setting time of the base coat.
- Clean tools and hands with running water immediately after use. After drying difficulties with cleaning may be experienced. Wipe new splashes off soiled surfaces with damp cloth. Once hardened, the material can only be removed mechanically.

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
- Stainless steel scraper and bucket trowel
- Bucket
- Hand sander (coarse sanding paper) / abrasive rasp for polystyrene

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 +10°C to +25°C

Relative humidity at application and setting:
up to 80%

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Density:

approx. 1.84 g/cm³ (±10%)

Colour:

White - can be tinted into 90 colours from the colour chart SOLTHERM 300+ SPEKTRUM

Coefficient of heat conductivity λ:

≤ 0.67 W/(m*K)

Diffusion resistance factor, μ:

≤ 240

Water absorption after 24h immersion according to ETAG 004:

≤ 300 g/m²

Setting and drying time after application:

min. 24h

Packaging:

25 kg

No. of containers per pallet and net weight:

24 / approx. 600 kg

Shelf life:

12 months from the date of production provided on the packaging

NOMINAL COVERAGE:

Reinforced coating application

Single mesh ≥ 3.5 kg/m²

Double reinforcement including a combination of standard and armour mesh ≥ 6.5 kg/m²

Levelling the surface 0.9÷ 1.4 kg/m²

Coverage will vary with the number of reinforcement layers and coat thickness. 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 containers in temp. between +5°C and +25°C. Protect from direct sunlight and frost. Store away from the reach of children.

COMPOSITION:

Dispersion of organic polymers with silica, water, reinforcing glass microfibres, pigments, additives and preservatives.

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