

# SOLTHERM E

## Flexible Adhesive

### PRODUCT DESCRIPTION:

- increased adhesion (C2) to the surface
- reduced slump (T) - allows tiling from up to down
- extended open time (E)
- frost resistant
- can be applied over deformable substrates including underfloor heating and drywall
- component of the insulation system with EPS and MW as insulating material finished with ceramic/stone tiles

### SUBSTRATES:

Interior and exterior:

- cement screeds and floors,
- concrete, cellular or lightweight concrete, reinforced concrete
- cement and lime-cement renders
- solid masonry with full head and bed joints,
- fibre cement cladding,
- waterproofing, including the membranes BOLIX HYDRO or BOLIX HYDRO-DUO,
- glass fibre reinforced base coat in the SOLTHERM system.

Interior:

- existing terrazzo,
- plasterboards,
- gypsum renders, anhydrite,
- underfloor and wall heating.

### SUITABLE FOR:

Large, medium and small format tiles:

- ceramic (glazing, terracotta, porcelain, quarry)
- vitrified,
- composite tiles,
- stone, provided they are not prone to discolouration,
- concrete,
- ceramic mosaics, translucent tiles.

### USE:

- adhesive for fixing tiles (2 ÷ 10 mm),
- levelling compound for thickness up to 5 mm,
- for interior and exterior applications,
- for terraces, balconies, loggias (medium and small format tiles)
- for wet rooms, including bathrooms, toilets, laundry rooms, shower stalls, public sanitary rooms,
- for walls and ceilings,
- heavy load surfaces such as a garages, workshops, industrial floors, halls, corridors, passageways,
- to install ceramic/stone tiles in EWI systems based on EPS and MW

### SUBSTRATE PREPARATION:

The surface must be structurally sound, even, clean of surface contaminants that may reduce or prevent adhesion such as dust, grease, bitumen and other barrier materials. New substrates should be fully cured:

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|-----------------------------|--|
| - BOLIX SPN repair compound | min. 2 days                                  |
| - BOLIX PC-B screed         | min. 1 day - prior to laying ceramic tiles   |
|                             | min. 2 days - prior to laying stone cladding |

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|--|------------------------------|
| - BOLIX PC-S screed                                | min. 2 days                  |
| - BOLIX PC screed                                  | min. 7 days                  |
| - anhydrite screeds                                | humidity ≤ 0,5%              |
| - gypsum substrates                                | humidity ≤ 1,0%              |
| - concrete, lightweight concrete                   | min. 3 months, humidity < 4% |
| - cement levellers, cement and lime-cement renders | min. 28 days, humidity < 4%  |

Remove limewash or colour wash.

Even out minor irregularities with the adhesive SOLTHERM E. Fill gaps and imperfections above 5 mm with the mortar SOLTHERM LRC and apply the BOLIX SN20 self-leveller on floors.

Prime porous surfaces with the SOLTHERM SP Primer.

Sand any gypsum or anhydrite surfaces with coarse sandpaper, remove dust thoroughly and prime with SOLTHERM SP.

Sand smooth and non-porous concrete substrates, terrazzo, existing ceramic or stone tiles, engineered wood plank or firm paint coats with coarse sandpaper and vacuum the sanding dust thoroughly. Prime with SOLTHERM CS.

Do not prime, when tiling over glass fibre reinforced base coats.

### PRODUCT PREPARATION:

Measure the clean water (5.4 ÷ 5.6 litre) into a suitable vessel/bucket and add the adhesive while mixing using an agitator 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. Do not admix except water.

### APPLICATION:

To provide adhesion, firstly spread a thin layer of adhesive using the straight edge of a trowel. Follow immediately with the necessary thickness of the adhesive using a notched trowel to match the tile type and format. For tiling on the exterior, over heated substrates or floors subject to heavy loads and for installation of large format or thin tiles, spread a thin layer of the adhesive on the back of the tile (back-buttering), using the straight edge of a trowel. Apply enough adhesive to set tiles before skinning occurs. Clean any soiled or dusty back tiles prior to tiling. Place the tile at the distance of the size of grout lines, making sure the tile is properly aligned with other tiles and firmly apply pressure to the face of the tile while moving the tile back and forth. This helps to ensure that the mortar transfers to the back of the tile and that the tile is in an even plane with the adjacent tiles. The grout line size will vary depending on tile size and conditions of use - do not butt joint. Skim off excess mortar before it sets.

### LIMITATIONS AND RECOMMENDATIONS:

- It is not recommended to wet or pre-wet tiles with water prior to installation.
- Do not apply to substrates, which are not damp-proofed against capillary absorption.
- Before application, cover or mask surfaces that are not to be used in the installation.
- Plan the surface area to be tiled over taking into consideration temperature and humidity conditions, surface type and workforce.
- Protect surfaces from direct sunlight exposure, precipitation and wind during installation of ceramic or stone tiles. Use scaffolding meshes.
- Low temperature, increased humidity and improper air circulation extend the drying and setting time of the adhesive.
- Clean tools and hands with running water immediately after use. After drying difficulties with cleaning may be experienced.

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- Wipe new stains off soiled surfaces with damp cloth. Hard stains may be removed only mechanically.
- Protect newly installed tiles from water penetration and frost until the mortar is fully set.
- Prior to adhesive application, waterproof wet rooms (showers, bathrooms, laundry rooms) with the liquid waterproofing membrane BOLIX HYDRO or BOLIX HYDRO DUO and the BOLIX HYDRO-T sealing tape. Waterproof the exterior surfaces (terraces, loggia and balconies) using the two-component compound BOLIX HYDRO-DUO and the BOLIX HYDRO-TW sealing tape.
- Expansion joints in the substrate should be continued to the surface.
- Clean tools and hands with running water immediately after use. After drying difficulties with cleaning may be experienced.

### 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 a hoop paddle
- Bucket
- Notch trowel (notch size should correspond to the tile size)
- Stainless steel scraper and trowel

### 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%

#### Bulk density:

approx. 1.5 g/cm<sup>3</sup>

#### Colour:

grey

#### Adhesive thickness:

2÷10 mm

#### Pot life:

up to 2h

#### Open time:

approx. 30 min.

#### Adjusting time:

approx. 20 min.

#### Grouting/Walkable:

after min. 24h

#### Full load:

after min. 3 days

#### Temperature resistance:

-30°C ÷ +70°C

#### Packaging:

25 kg bags

#### No. of containers per pallet and net weight:

48 / ca. 1200 kg

#### Shelf life:

12 months from the date of production provided on the packaging

#### NOMINAL COVERAGE:

##### approx. 1,30 kg/m<sup>2</sup> for 1 mm thick adhesive coat

Coverage depends on surface levelling, type of tiles and thickness of adhesive layer. To determine precise coverage perform a test patch on the substrate.

#### STORAGE:

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

#### COMPOSITION:

Hydraulic binders, polymers, fine mineral and synthetic fillers modifiers.

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