

MUREXIN

Easy design with the Uniplatte!

Mounting | Processing in wet and dry areas
System structures | Tips & tricks | Products

Tiling System



It lasts.

MUREXIN

Uniplatte

The Murexin Uniplatte is the ideal carrier element for all types of ceramic coverings laid in the thin-bed method. It consists of a pink extruded polystyrene hard foam and a textile glass-mesh-reinforced special mortar coating on both sides. Austrotherm XPS® forms the core of the lightweight board and has been successfully used for many years as insulation material.

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Perfect for indoors and out, and it's easy to process!

The Murexin Uniplatte is perfectly suited for covering wall and floor areas in dry areas as well as in wet rooms.

- **Indoors and outdoors** in conjunction with seals such as LiquidFilm **1KS**.
- **For covering wall and floor areas** in dry as well as wetrooms
- **Covering of walls and floors** in renovations and new builds
- **Covering of bath tubs and showertrays**
- **Production of constructions**, such as installation of washbasins, shelves, steps, water containers, trays, round-covers and much more
- **Production of separating walls**, such as for showers, WC facilities and much more
- **Covering drainpipes**
- **Covering wooden floors** as well as wooden stand constructions

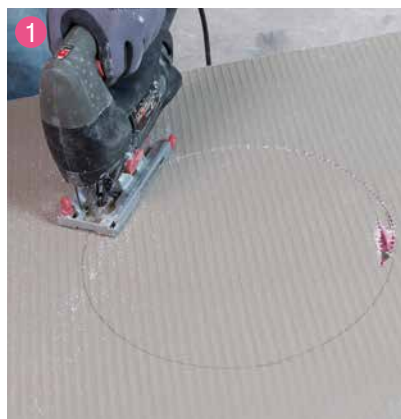
For non load-bearing substrates, separating layers etc., it is essential that the **Murexin Uniplatte** is fastened with special dowels. Dowelling should take place immediately after adhering the boards.

1. Cut the Murexin **Uniplatte** to the desired size using a rip saw or jigsaw etc.

2. Then apply Murexin **adhesive mortar** to the board as dabs of mortar, or completely to the substrate. Paint the edges of the board with Murexin **adhesive mortar** or Special Adhesive **X-Bond MS-K88 Express**, so that the individual boards stick together.

Then tap the Murexin **Uniplatte** onto the wall and align vertically and horizontally with a spirit level and a builder's square.

Afterwards fill the board joints with Murexin **adhesive mortar** and reinforce this with Glass Fibre Fabric **GS 10**.



Using the Murexin Uniplatte

Mounting on the wall

On load-bearing substrates, the dabs of mortar are applied with Murexin adhesive mortar (approx. 5 dabs of mortar per m²). Then the Uniplatte is completely pressed on and levelled with a spirit level. Instead of dabs of mortar, the adhesive mortar can be applied completely on the building panel using a 10 x 10 mm notched trowel (further processing as described above).



After point-by-point or full area application of the Murexin adhesive mortar, the Murexin Uniplatte can be stuck directly to the floor or wall.

If the Murexin Uniplatte is used for covering loose masonry, we recommend installing it with suitable dowels. Pre-drilling an 8 mm hole in the substructure is required. With this construction method, approx. 5 dowels per m² are required. Additional adhesion via tile adhesive is not required.

Please ensure that the dowel is pushed in far enough so that there is no height offset between the Murexin Uniplatte and the dowel. If the Murexin Uniplatten are mounted directly on the wooden substructures as grate or wooden panels, the screws which are part of the system should be used.

Also for this type of construction, approx. 5 fastening points per m² are required. The screws should also be fitted flush.



The joints are fixed with Murexin **adhesive mortar** or Special Adhesive **X-Bond MS-K88 Express**.

Mounting on the floor

The Murexin **Uniplatte** provides an ideal substrate for ceramic tiles and panels in renovation projects. The Murexin Uniplatte is glued over the entire surface of the concrete or subfloor with tile adhesive. In wet rooms, it may also be advisable to use Sealing Tape **DB 70** as a joint cover to ensure water resistance.



Installation of the Murexin **Uniplatte** on wooden shelves via adhesion and/or screwing.

When using the Murexin **Uniplatte** wooden stand constructions or on wooden floors, it is recommended to use at least 3 cm thick boards. The screws are screwed into a grid of approx. 40 x 40 cm.

Paint the edges with Murexin **adhesive mortar** or Special Adhesive **X-Bond MS-K88 Express** to join the individual boards to one another.

When using the Murexin **Uniplatte** on screeds or concrete as heating insulating carrier element, adhere by applying the Murexin **adhesive mortar** to the complete area of the substrate. Paint the edges again with Murexin **adhesive mortar** or Special Adhesive **X-Bond MS-K88 Express**, so that the individual boards stick together.



Complete area adhesion with Murexin adhesive mortar.

Producing partitions

When producing partitions, forming bath tubs, coverings etc., it is best to use Murexin connecting clamps as an installation aid. These are screwed or nailed to the wall or floor. Then the Murexin Uniplatte is placed in the clamps, which hold the board in place immediately. In wet rooms, wall and floor niches are to be sealed using Sealing Tape **DB 70**, and pipe outlets with Sealing Sleeve **DZ 35** or **DZ 70**.



1. Paint the edges of the board with Special Adhesive **X-Bond MS-K88 Express**.



2. Now it is immediately possible to join one Murexin **Uniplatte** to the next.



3. Glass Fibre Fabric **GS 10** can be used to close board joints.



4. Insert the Glass Fibre Fabric **GS 10**, simply fill with Murexin **adhesive mortar** – the substrate is ready!

Joint formation and covering

All connections, inner corners, wall connections as well as floor-ceiling connections are designed to be elastic. All head and longitudinal joints are also to be glued. For this purpose we recommend Special Adhesive **X-Bond MS-K88**. In the normal area, all head and longitudinal joints must be covered with Glass Fibre Fabric **GS 10**. The strips are laid in the Murexin **adhesive mortar** and then plastered. In immediate wet areas, e.g. showers or wherever running and standing water occurs, sealing tape **DB 70** must be inserted in the wall and floor niches instead of the fabric strip. Application of the sealing tape takes place with suitable sealing materials.

Further processing

After hardening of the Murexin **adhesive mortar** (after approx. 12 hours, for adhesion with the Rapid flex adhesive mortar white **SFK 81** or Rapid Flex Adhesive Mortar Trass **SFK 85** after approx. 3 hours), the ceramic covering in the form of tiles, boards or mosaic can be applied. For the laying of ceramic coverings, the processing guidelines of Murexin **Tile Adhesive Mortar apply**.

Faster with Murexin prefabricated elements!

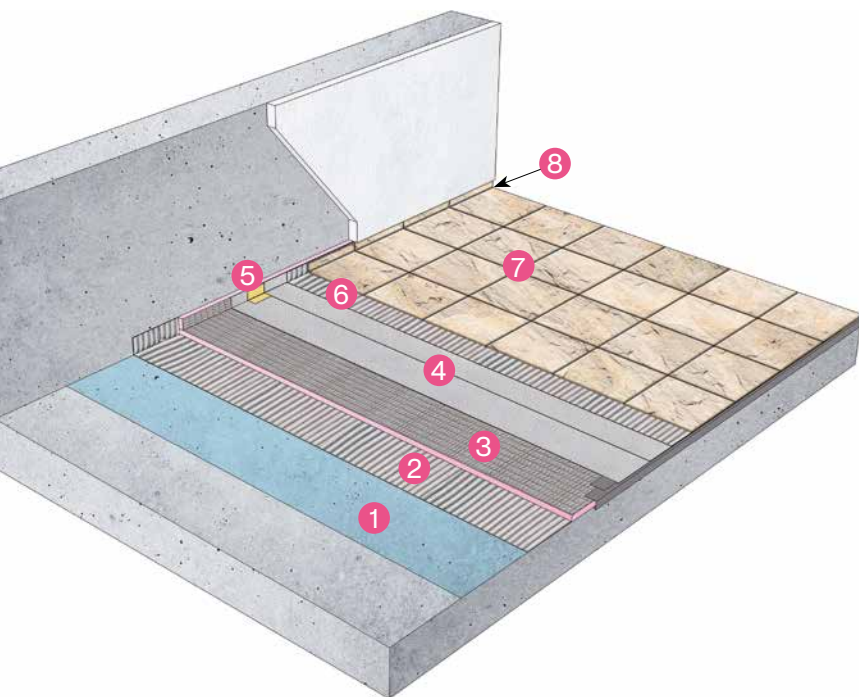
There are practically no limits to the application areas of the Murexin **Uniplatte**. From bath tub designs and pipe coverings through to covering complete facades, the unique product fits all environments and requirements. The prefabricated building elements like pipe boxes are Murexin's own constructions. All elements are made from the raw material of the Murexin **Uniplatte**. They save processors a lot of time. Even Murexin **pipe boxes** for pipe cladding are easy to produce with the Murexin **Uniplatte**.

Fastening

Heavy elements such as WCs, washbasins, cabinets etc. must always be anchored in the substructure. The Uniplatte cannot bear very high point loads.

The perfect system

Also for a liquid-tight, low-weight construction to compensate for level differences and improve thermal insulation for subsequent tiling, the **Murexin Uniplatte** is perfectly suitable. Application can take place indoors as well as outdoors, such as on a terrace with a cellar, for balcony and terrace renovation or on loggias, when levelling, heat insulation, lightweight construction or quick building progress is required.



Construction

- 1 Penetrating Primer **LF 15**
- 2 Flex Adhesive Mortar Trass **KTF 55**
- 3 Uniplatte
- 4 Liquid Film **2KS**
- 5 Sealing Tape **DB 70**
- 6 Flex Adhesive Mortar Trass **KTF 55**
- 7 Flexfuge Platinum **FX 66**
- 8 Special Sealant **X-Bond MS-D 81**



The processing

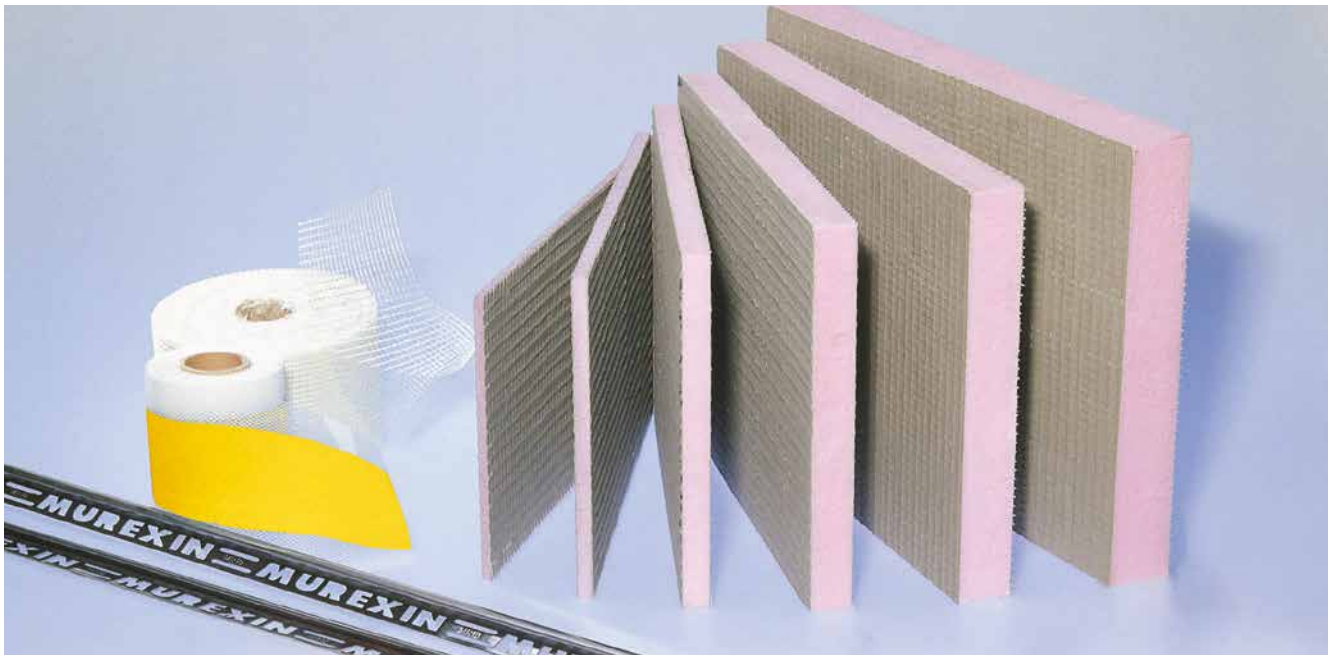
First, priming takes place with Penetrating Primer **LF 15**. Then the Murexin **Uniplatte** is adhered with suitable cementitious Murexin Flex Adhesive Mortar Trass **KTF 55**. Now the board joints are filled with Murexin Flex Adhesive Mortar Trass **KTF 55**, whereby reinforcement with Glass Fibre Fabric **GS 10** is required.

This is followed by sealing with Liquid Film **2KS** in the form of a two-layer application. Sealing tape **DB 70** is used for all connections.

In the next step follows the laying of the ceramic covering using the thin-bed method with suitable tempered Murexin **Flex adhesive mortars**, such as Flex Adhesive Mortar Trass **KTF 55**.

The ceramic covering is then grouted with suitable Murexin Flexfuge Platinum **FX 66**. A permanently elastic seal of the connection and expansion joints is achieved with Special sealant **X-Bond MS-D 81**.

The Murexin Uniplatte – the carrier plate


Linear heat expansion coefficient:

XPS core: 0.07 mm/(m.K.)

Water absorption by underwater storage:

Wlt ≤ 1.5 vol % (XPS core after 28 days underwater storage)

Diffusion resistance factor: 70 –100

Compressive strength: $\sigma_{\max} \geq 200 \text{ kPa}$ (0.2 N/mm²; 2.0 kg/cm²)

Thermal conductivity: $\lambda_{10, \text{tr}} \leq 0.035 \text{ W/m.K.}$

(up to 50 mm board thickness)

Dimensions:

0.4 cm	0.78 m ²	60 x 130 cm
0.6 cm	0.78 m ²	60 x 130 cm
1 cm	0.78 m ²	60 x 130 cm
1 cm	1.56 m ²	60 x 260 cm
2 cm	1.56 m ²	60 x 260 cm
3 cm	1.56 m ²	60 x 260 cm
4 cm	1.56 m ²	60 x 260 cm
5 cm	1.56 m ²	60 x 260 cm
6 cm	1.56 m ²	60 x 260 cm
8 cm	1.56 m ²	60 x 260 cm
10 cm	1.56 m ²	60 x 260 cm

Usage area

It is a coated XPS panel for covering wall and floor areas, water and frost-proof, heat insulating and stable. Ideal substrate for tile laying and also perfectly suited as plaster base, especially for building wash basins, steps, separating walls as well as for covering wooden floors and wooden stand constructions.

Thermal conductivity

The foam core (XPS) is an insulating material as per EN 13164; the thermal conductivity is no longer specified for a certain thickness, but takes place as a declaration of an "aged" thermal conductivity for previously defined products and thickness ranges; thus the nominal value for the thermal conductivity for the raw foam used in the Murexin **Uniplatte** looks like this: $\lambda_D = 0.040 \text{ W/m.K.}$, as the corresponding product was summarised into a group over the whole thickness range. The Murexin **Uniplatte** as such is not subject to this standard, that means it is not insulating material in the sense of EN 13164.

The products



Pipe box L

Uniplatte bonded in L shape to cover drainpipes, for example.
Length: 260 cm, thickness: 2 cm



Penetrating Primer LF 15

Solvent-free, water-dilutable, high-quality priming concentrate based on acrylate mixed polymers with very good penetrating properties. Simple control thanks to blue colouration. Indoors and outdoors as adhesive bridge for all adhesive mortars, levelling and smoothing compounds, and compound seals for absorbent substrates.

Consumption: approx. 150 - 200 g/m²



Levelling Mortar Trass Rapid AM 50

Trass-containing, highly tempered, water and frost-proof, very quick hardening, hydraulically setting levelling mortar. Through the special additives the mortar hardens without tension up to 50 mm and demonstrates very good processing properties. Indoors and outdoors for levelling uneven wall and floor areas before tiling in living rooms, showers, on balconies, terraces, garages, swimming pools, commercial wet rooms and facades.

Consumption: approx. 1.6 kg/m² per mm layer thickness



Special Adhesive X-BOND MS-K 88 EXPRESS

High-quality elastic single-component adhesive, based on the latest developments in MSP technology. The product is water, solvent, silicone, isocyanate and halogen-free, can be painted over and is UV and weather-resistant. Furthermore, it is permanently elastic and prevents the transfer of adverse forces to the substrate. Universally applicable strong adhesive and sealant for indoor and outdoor use.

Consumption: depending on substrate and application



Special Sealant X-BOND MS-D 81

Single-component, solvent, and silicone-free, odour-neutral, UV, and weather-resistant, waterproof, sealing compound based on MS polymer. Perfectly suitable for grouting large format panels outdoors. Resistant to fungi and bacteria. Can be used indoors and outdoors for closing expansion joints and wall and floor niches in ceramic coverings, as well as closing joints between tile covering and foreign materials.

Consumption: 1 cartridge is sufficient for approx. 10 running metres with a 5 mm joint width



Sealing



Sealing tape **DB 70**

Fabric-reinforced, elastic sealing tape with a fabric-free zone, fabric edge protruding on both sides, fleece coating on both sides for optimum embedding, water-impermeable, chemically-resistant to diluted acids, lyes, and saline solutions. System components for sealing in wall and floor areas, both indoors as well as outdoors. For bridging and sealing connecting and corner joints. Also suitable for swimming pools.

Consumption: Consider an overlap of min. 5 cm



Gully Sealing

Fleece laminated on both sides and very elastic sealing mat with perforated edge zones for optimum water impermeable embedding in Murexin compound seals. Chemically resistant to diluted acids, lyes, and saline solutions. System components for sealing gullies and floor outlets in conjunction with sealing systems.



Glass Fibre Fabric **GS 10**

Self-adhesive, alkali-resistant reinforcement fabric. For reinforcing adhesive filler and seals in edge area. Used for force absorption, e.g. for bridging cracks.

Consumption: calculate overlaps



Liquid film **2 KS**

Quick hardening, seam and jointless, two-component, low temperature elastic compound seal. Indoors and outdoors for jointless sealing of wall and floors areas under the ceramic covering in showers, bathrooms, on terraces and balconies. According to EN 14891, ÖNORM B 3407 W1-W6, according to DIN 18534 for water impact class W0-I to W3-I (for W3-I without additional chemical load), according to DIN 18531-5 (balconies, loggias, etc.) and DIN 18535 (swimming pools and containers), as well as according to the test principles for the issue of a general building inspection test certificate.

Consumption: approx. 1.5 kg/m² per mm layer thickness (approx. 3 kg/m² per 2 mm layer thickness)



Pro Sealing Film Rapid **MAXIMO PSM 1K**

Quick hardening, highly efficient, hydraulically setting, solvent-free, water-impermeable, but still water vapour permeable, flexible single-component sealing slurry for the creation of seamless and jointless compound seals for the wall and floor area of indoor and outdoor areas, for jointless sealing of wall and floor area directly under the ceramic covering. For application on balconies, terraces and swimming pools (down to 4 m) as well as underfloor heating systems. Tiling is possible after three hours. According to EN 14891, ÖNORM B 3407 W1-W6, according to DIN 18534 for water impact class W0-I to W3-I (for W3-I without additional chemical load), according to DIN 18531-5 (balconies, loggias, etc.) and DIN 18535 (swimming pools and containers), as well as according to the test principles for the issue of a general building inspection test certificate.

Consumption: approx. 1.15 kg/m² per mm layer thickness (approx. 2.3 kg/m² per 2 mm layer thickness)



Adhesion



Flex Adhesive Mortar grey KGF 65

Powdery, fibre-reinforced and dust-reducing, water and frostproof, highly tempered, hydraulically setting flexible adhesive mortar with improved full hardening for thin-bed laying. Indoors and outdoors for laying ceramic tiles and slabs made of earthenware, stoneware and fine stoneware as well as dark, non-sensitive natural stone slabs. Suitable for increased thermal or static loads. Especially well suited for laying tiles on tiles.

Consumption: approx. 1.7 kg/m² at 6 mm toothing
approx. 2.3 kg/m² at 8 mm toothing
approx. 3.0 kg/m² at 10 mm toothing



Flex Adhesive Mortar White KWF 61

White, powdery but dust-reducing, water and frostproof, highly tempered, hydraulically setting flexible adhesive mortar for laying adhesive bed thicknesses from 3 to 20 mm. Indoors and outdoors for laying coverings, fine stoneware with increased thermal or static loads. Especially suited for laying tiles on tiles and for laying translucent, non-cupping natural stones.

Consumption: approx. 1.8 kg/m² at 6 mm toothing
approx. 2.4 kg/m² at 8 mm toothing
approx. 3.1 kg/m² at 10 mm toothing



Flex Adhesive Mortar Trass KTF 55

Powdery, water and frost-proof, highly tempered, hydraulically setting adhesive mortar for layer thickness from 3 to 20 mm especially for laying natural stone. The adhesive mortar offers more security against efflorescence and discolouration. Indoors and outdoors for flexible laying of ceramic tiles, boards, non-translucent natural stones, mosaics, artificial stone and cotto, as well as boards with strong profiles without levelling the substrate in the course of laying.

Consumption: approx. 1.8 kg/m² at 6 mm toothing
approx. 2.4 kg/m² at 8 mm toothing
approx. 3.1 kg/m² at 10 mm toothing



Rapid Flex Adhesive Mortar Trass SFK 85

Virtually temperature-independent, powdery, crystalline water-binding, food-safe, water and frost-resistant, highly hardened, fast, hydraulically setting grey adhesive mortar for laying in adhesive layer thicknesses up to 20 mm. The adhesive mortar offers more security against efflorescence and discolouration. For indoor and outdoor use on walls and floors for laying a wide variety of coverings (especially for large formats).

Consumption: approx. 1.8 kg/m² at 6 mm toothing
approx. 2.6 kg/m² at 8 mm toothing
approx. 3.4 kg/m² at 10 mm toothing



Rapid Flex Adhesive Mortar White SFK 81

White, almost temperature-independent, powdery, crystalline water binding, water and frostproof, highly tempered, hydraulically setting flexible adhesive mortar for laying up to 20 mm adhesive bed thickness. No shine through for light materials. Indoors and outdoors for laying a wide variety of coverings, fine stoneware (especially for large formats) with increased thermal or static loads in a layer thickness up to an adhesive thickness of 4 to 20 mm.

Consumption: approx. 1.8 kg/m² at 6 mm toothing
approx. 2.5 kg/m² at 8 mm toothing
approx. 3.2 kg/m² at 10 mm toothing



Flex Adhesive Mortar **MAXIMO** M 41

Powdery, but dust-reducing, food-safe, hydraulically setting flexible adhesive mortar with high yield (+30%), high frost resistance, not flammable, water-repellent and ensuring an especially good room climate due to its heat retaining properties. Indoors and outdoors to bond all ceramic materials and many natural stones, as well as for levelling walls and floors in layer thicknesses of 2 to 15 mm.

Consumption: approx. 1.4 kg/m² at 6 mm toothing
approx. 1.8 kg/m² at 8 mm toothing
approx. 2.2 kg/m² at 10 mm toothing



Grouting



Flexfuge Platinum **FX 66**

Powdery, food-safe, water and frost-proof, super-smooth, high-strength and flexible grout with pearl effect. Simple processing and further processing is possible without time delay through the simple application of the filler in the joint and a similarly quick application, especially for non-absorbent material. Moreover, the low water consumption of the highly abrasion-resistant grout reliably prevents the formation of patches. Indoors and outdoors on wall and floor surfaces for grouting joint widths from 1 to 10 mm. For water and dirt-repellent grouting of ceramic tiles, boards and mosaic, as well as natural stone and fine stoneware. Suitable for underfloor heating systems in living areas, as well as for wet rooms, terraces and balconies.

Consumption: 0.2 - 0.9 kg/m² (depending on the tile format and the joint width) consumption calculator at www.murexin.com



Epoxy Grout **FMY 90**

Food-safe, waterproof, frost-proof, solvent-free, bacteriostatic, temperature, resistant to ageing and chemicals, 2-component grout based on epoxy resin. Grouting of ceramic tiles, panels and mosaics in interior and exterior wall and floor areas. Especially suitable for use with aggressive waters, plant-based or animal fats and chemicals, as well as in drinking water containers. The Epoxy Grout FMY 90 is also suitable for adhesion and levelling.

Consumption: approx. 1 kg/m², depending on the joint format



Grout Trass **FMT 15**

Powdery, food-safe, water and frost-free, tempered, hydraulically setting grout based on trass for grouting wide joints. Grout Trass FMT 15 offers additional safety against efflorescence and discolouration. Indoors and outdoors for grouting of 4-15 mm joint width. For grouting natural stones, absorbent tiles and artificial stones.

Consumption: 0.6 – 2.0 kg/m², depending on tile format and joint width



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Subject to typesetting and printing errors. Edition: 04/2024. We would like to point out that the photos used are only symbolic photos and that these objects do not require our products but only demonstrate areas of application, unless they are explicitly mentioned as reference objects.

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