

LUGATO PROFESSIONAL

FLEXKLEBER 420

For gluing wall and floor tiles to standard structural substrates and heated screeds.



Product performance:

- Thin-bed mortar in the C2TE quality of EN 12004.
- Made more flexible.
- Easy to process.
- With increased stableness.
- With extended opening time.
- Heat-resistant.
- Waterproof and freeze-thaw resistant.

Application:

For gluing

- Ceramic tiles and plates on cement-bound heated screeds, plaster-bound building panels, e. g., gypsum fibreboards and other standard structural substrates.
 - Insulation panel made from hard foamed plastics and mineral fibres, tile elements (hard foam insulation panels with double-sided mortar lamination).
- For gluing tiles on NASSRAUMABDICHTUNG 310.

Indoor and outdoor use.

On wall and floor.

As well as under water.

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Substrate preparation:

Suitable ceramic tiling: Earthenware and stoneware tiles, fine stoneware tiles (indoors), split tiles, mosaic tiles.

Level bumps up to 5 mm with the glue, larger bumps on the floor with BODENSPACHTEL INNEN 220, outdoors with BODENSPACHTEL UNIVERSAL 210, on walls indoors and outdoors with AUSGLEICHMÖRTEL 270.

The following applies to all substrates: even, loadbearing, clean, crack-free, dry, free of separating impurities, e.g., form oil. Remove plaster or cement skin, colour paintwork, wallpaper, wallpaper paste.

| Substrate / LUGATO PROFESSIONAL products | Requirements | Prime with TIEFGRUND 110 |
|---|---|--------------------------|
| Anhydrite screeds | Residual humidity < 0.5 CM%, partially ground, aspirated | + |
| AUSGLEICHMÖRTEL 270 | Does not require any additional preparation | |
| Concrete, precast concrete parts | Free of form oil; at least 4 months old | |
| BODENSPACHTEL INNEN 220 | Does not require any additional preparation | |
| BODENSPACHTEL UNIVERSAL 210 | Does not require any additional preparation | |
| Plasterboards | Attached according to the manufacturer's instructions, dust-free | |
| Gypsum fibre panels, plasterboards | Attached according to the manufacturer's instructions, dust-free | + |
| Gypsum plaster | Minimum thickness 10 mm, not felted, not smoothed, dry | + |
| Plastic slabs | Superficial skin grinded for extruded boards | |
| Hard plastic boards, mortar-laminated on both sides | Torsionally stiff and rigidly fixed Hardened for at least 3 weeks, functionally heated, residual | |
| Heated screed, cement-bound* | humidity < 2.0 CM%. Turn off heating for 8 days from installation date | |
| NASSRAUMABDICHTUNG 310 | Does not require any additional preparation | |
| Cellular concrete, indoor | Dust-free | + |
| Dry screeds | Installed and vacuumed based on manufacturer's instructions | + |
| Cement, lime and cement plasters | Minimum layer thickness 10 mm, sufficiently hardened | |
| Cement screeds | Sufficiently hardened. Installed floating or on insulation: residual humidity < 2.0 CM% | |

+ Primer required

*) For heated screeds, the "Interface coordination for heated flooring constructions" (Publisher: Central Association for Sanitary, Heating and Air Conditioning) must be taken into consideration.

Processing:

Mixing: Stir bag contents (25 kg) in approx. 6.5L of clean water. Mix again after 5 minutes.

Gluing plastic boards: Grind plastic boards with superficial skin. Apply glue in strips that are 2–3 cm wide and 1 cm thick to the tiles; apply glue points to the middle of the tile. Press tiles firmly and butt tightly. Keep butts free from adhesive.

Processing: Apply the adhesive to the substrate and comb with a toothed trowel. Insert and align the tiles within 30 minutes. Knock on the floor with a rubber mallet.

Caution: Prevent cavities when gluing on highly stressed surfaces, outdoors or under water. Therefore, in addition spread adhesive across the back surface of the tile (combined process).

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Product data:

Quantity, yield depends on toothing of the notched trowel

| Toothing of the notched trowel | Quantity required | Yield from 25 kg FLEXKLEBER 420 |
|--------------------------------|-------------------------------|---------------------------------|
| 3 x 3 x 3 mm | approx. 1.3 kg/m ² | approx. 19 m ² |
| 4 x 4 x 4 mm | approx. 1.7 kg/m ² | approx. 15 m ² |
| 6 x 6 x 6 mm | approx. 2.5 kg/m ² | approx. 10 m ² |
| 8 x 8 x 8 mm | approx. 3.6 kg/m ² | approx. 7 m ² |
| Batch preparation | approx. 2.0 kg/m ² | approx. 12.5 m ² |

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|---|--|
| Water requirement: | 0.26L water for 1 kg of powder |
| Processing time (time in container): | 4–5 hours |
| Processing temperature (Substrate, environment and material) | 5–25 °C |
| Open time: | 30 minutes |
| Temperature resistance of the gluing: | -25 to +100 °C |
| Can be walked on/loaded: | after 1 day / after 7 days |
| Adhesive tensile strength (as per EN 1348) for standard-, water-, heat- and freeze-thaw bearing: | > 1.0 N/mm ² |
| Slippage measure (as per EN 1308): | < 0.5 mm |
| Waiting period until joint sealing for LUGATO PROFESSIONAL products: | 1 day |
| Ingredients: | Standard cement, calcite fillers, plastic additives, binding regulators, anti-foaming agents |
| Ecology: | Very low emissions ^{PLUS} (EMICODE EC 1 ^{PLUS} R). |
| Waste disposal: | Recycle the completely emptied packaging |
| Pack size: | 25 kg |
| Shelf life: | 18 months in original sealed packaging. Store in a dry place |

All times based on 15–20 °C and 65% rel. humidity. Higher temperatures accelerate and lower temperature decelerate the curing process.


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Appraisal certificate:

- **As per EN 12004:**
C2TE class by Säurefliesner-Vereinigung e. V., Großburgwedel.
- **With NASSRAUMABDICHTUNG 310:**
General building inspection test certificate P-5409/0475 of MPA Braunschweig for sealing in connection with tile and board surfaces, stress class A (wall).

Please consider:

On young substrates, e. g., three-month old concrete or difficult substrates, e. g., chipboards, for gluing and embedding electric heating mat, for gluing tile on tile (indoors) and for gluing porcelain stoneware tiles outdoor use FLEKKLEBER EXTRA 430. For gluing tiles on interior coats use FLEKKLEBER SCHNELL 440 and for gluing on natural stone use NATURSTEINKLEBER 460.

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| 1212 | |
| LUGATO GmbH & Co. KG Großer Kamp 1, D-22885 Barsbüttel 05 6360 | |
| EN 12004:2007+A1:2012 Cement-based mortar for increased requirements with lowered slipping and extended open time for laying tiles, indoors and outdoors EN 12004:C2TE | |
| Fire behaviour: | class E |
| tensile adhesion strengths Dry-/Wet-/Warm-/ Freeze-thaw bearing: | ≥ 1,0 N/mm ² |
| Open time: | ≥ 0,5 N/mm ² (30 min.) |
| Slippage: | ≤ 0,5 mm |
| Dangerous substances: | see safety data sheet |

Health & safety:



Causes skin irritation. Causes severe eye damage. Can irritate the respiratory system. If medical advice is necessary, keep the packaging or marking label ready. Keep out of the reach of children. Only use outdoors or in well-ventilated rooms. Wear protective gloves (e. g., nitrile-impregnated cotton gloves)/ protective clothing/eye protection/face protection.
IN CASE OF EYE CONTACT: Carefully rinse with water for a few minutes. Remove any contact lenses. Continue rinsing. Bring contents/container to hazardous waste disposal.
GHS CODE: ZP1. Contains Portland cement. Shows strong alkaline reactions when exposed to water. Prevent dust formation and mortar splashes.



Hazard

Request safety data sheet if needed or download it online at www.lugato-professional.de.

The statements made in this information sheet reflect our current knowledge and level of experience. Since we do not have influence on the object-specific circumstances and the correct execution of the work, we can only guarantee the consistent quality of our products. For that reason, in case of doubt verify the suitability of the product through a sufficient number of test applications. A direct legal liability can be derived neither alone from the instructions in this information sheet nor from any verbal consultation. With the publication of this technical information sheet, all previous editions become invalid.

Application advice:

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Specifications are subject to change without prior notice.

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