LUGATO

GROSSFORMAT-KLEBER WAND & BODEN



Flexible high-end adhesive perfect for large-format wall and floor tiles.

GEV-EMICODE EC 1 PLUS sehr emissionsarm

S1 C2TE SPITZEN-QUALITÄT

Flexmörtel

Product performance

- Flexible special adhesive for wall and floor tiles.
- Ideal for large formats.
- With an extra-long opening time of 30 minutes for inserting and aligning the tiles.
- Waterproof, frost-resistant, heat resistant.
- In C2TE-S1 quality in accordance with EN 12004.

Application

For gluing

1. all types of ceramic tiles, also on heated screeds, precast concrete elements, adherent interior paints, old tiles.
2. on DUSCHABDICHTUNG, indoors, e.g. in shower and bath.
3. on UNIVERSAL-ABDICHTUNG, outdoors, e.g. on balcony and terrace.
4. electric heating mats with subsequent tile laying.

On walls and floors. Indoor and outdoor use, as well as under water.



Excellent wetting properties.

Substrates and preparation

The following applies to all substrates: sufficiently hardened and dry (ready for covering), load-bearing, clean, homogeneous, free from cracks, firm, and rigid. Free of separating substances, e.g. bitumen, oils, greases, waxes, impregnations, care products, binder skin, sinter layers, exterior paints, sealings. Large-format tiles require a particularly level surface. So be sure to correct unevenness on the wall with ROHBAUSPACHTEL INNEN or ROHBAUSPACHTEL AUSSEN. Level out larger irregularities on the floor with FLIESST & FERTIG, FLIESST & FERTIG EXTRA or FLIESST & FERTIG SCHNELL.

Substrates / LUGATO products	Consistency / Preparation	Priming with BESTE BASIS
Anhydrite screeds/Anhydrite heating screeds	Ready for covering (residual moisture < 0.5 CM %), as a rule this is sanded and vacuumed approx. 4 weeks after fabrication Assessment aid for the time period: http://anhydrit.de/de/service-center/planungshilfen/trocknungsrechner/ Max. adhesive thickness 6 mm. For tile sizes larger than 40 x 40 cm (> 1600 cm^2), prime with BESTE BASIS and coat with DUSCHABDICHTUNG (1-ply). Heating Switch off one day prior to installation (in winter operation supply temperature ≤ 25 °C). Recommission 7 days after levelling at the earliest.	x
Coatings, indoors	Waterproof, sanded, primed with HAFTGRUND, allow to dry (no epoxy paints).	
Concrete	at least 3 months old.	
DUSCHABDICHTUNG	No additional preparation needed.	
Fibre cement boards (indoors only)	Fastened in accordance with manufacturer's instructions. Follow the manufacturer's instructions for tiling.	x
Tiles	intact. **Indoors:** prime with HAFTGRUND and allow to dry. **Outdoors:** single-ply coating with UNIVERSAL-ABDICHTUNG as a bonding agent. Indoors and outdoors as waterproofing: coat with UNIVERSAL-ABDICHTUNG 2-ply.	
FLIESST & FERTIG, FLIESST & FERTIG EXTRA, FLIESST & FERTIG SCHNELL, NEU AUF ALT!	No additional preparation needed.	
Mastic asphalt, indoor use	Minimum quality class GE10/IC10 manufactured according to standards, sanded, max. adhesive thickness 5 mm.	
Gypsum fibre boards (indoor use only)	Fastened in accordance with manufacturer's instructions. Follow the manufacturer's instructions for tiling.	x
Gypsum boards (indoor use only) (formerly gypsum boards)	Fastened in accordance with manufacturer's instructions. Follow the manufacturer's instructions for tiling.	x
Gypsum plaster (indoor use only)	not smoothed, min. 2 weeks old. Smoothed surfaces can be grinded through suitable measures, dust-free.	x
Gypsum wall boards (indoor use only) (formerly gypsum planks)	According to the manufacturer's instructions.	x
Rigid foam sheets, mortar-laminated, indoor use	Fastened in accordance with manufacturer's instructions. Follow the manufacturer's instructions for tiling.	
Heated screeds, cement-bound	Sufficiently hardened, ready for covering (residual moisture ≤ 1.8 CM %), as a rule this is the case four weeks after fabrication. Smooth screed must be milled. Switch off heating one day before gluing. Recommission 7 days after levelling at the earliest.	

Substrates and preparation (continued)

Heating mats, electric	Apply adhesive with toothed trowel 6 x 6 x 6 mm. Embed heating mat, press tight with smoothing trowel, apply topcoat with a trowel. Allow to dry for 2 days.	
Wooden floorboards, indoor use	Even-out with NEU AUF ALT!. **Recommendation:** maximum tile size smaller than 30 x 30 cm.	
Masonry (brick, sand-lime brick, Poroton, aerated concrete, expanded clay)	**Indoors:** e.g. filled with ROHBAUSPACHTEL INNEN, MALERSPACHTEL. **Outside or in damp rooms:** filled with ROHBAUSPACHTEL AUSSEN.	x
Chipboard, indoors (P3, P5, P7), OSB boards (OSB 3, OSB 4)	Primed with BESTE BASIS and sealed with DUSCHABDICHTUNG. Minimum thickness: on floor ≥ 21 mm, wall ≥ 19 mm. Glued in tongue and groove, screwed every 50 cm to the substructure in accordance with DIN 4103-4. Max. tile size ≤ 30 x 30 cm. Comply with the manufacturer's instructions.	x
Terrazzo	roughen and vacuum off dust.	
Dry screeds	Fastened in accordance with manufacturer's instructions.	x
UNIVERSAL-ABDICHTUNG	No additional preparation needed.	
Wall panels (cement-bonded)	Fastened in accordance with manufacturer's instructions. Follow the manufacturer's instructions for tiling.	x
Cement screeds/cement-heated screeds	Sufficiently hardened, ready for covering (residual moisture > 2.0 CM % / 1.8 CM %), as a rule, this is the case approx. 4 weeks after fabrication. Smooth screed must be milled. Switch off heating one day before gluing. Recommission 7 days after levelling at the earliest.	
Cement, lime cement plaster	sufficiently hardened, not smoothed, at least 14 days old.	x

Key: x = BESTE BASIS required.

Processing



Stir the contents of the bag (20 kg) into 7.2–8 litres of clean water. Stir again after approx. 3 minutes.



"Scratch" the adhesive thinly onto the substrate as a contact layer. Directly thereafter, apply a thicker layer immediately and comb through to the substrate with a toothed trowel. Pull the toothed trowel over the surface at an even angle between 45–60 °.



Outdoor tiles, under water; for highly stressed surfaces and tiles with an edge length of 50 cm or more, glue indoors with minimal cavitation. To do that, apply additional adhesive to the back of the tiles, approx. 2 mm thick.



Insert, align and press the tiles within 30 minutes.

Processing (continued)

Further processing tips:

- For manufacturing reasons, tile backs are often covered with a white powder. This residue, which acts as a separating layer, must be removed before laying the tiles, e.g. by brushing off.
- Smooth tiles with a highly profiled reverse side using an adhesive scratch filler on the rear.
- When laying tiles, check the wetting of the back of the tiles repeatedly by picking up a tile that has already been laid. Wetting should be 80–90 % for floor tiles and at least 60–70 % for wall tiles. With insufficient wetting, increase the amount of adhesive by using a larger toothing of the toothed trowel and/or additional application of adhesive to the back of the tile (approx. 2 mm thick).
- In areas subject to heavy loads, the aim should be to bed the entire surface of the tiles with as few cavities as possible: under water, outside, in the case of heavy mechanical loads, e.g. garages, car dealerships, thermal stress or temperature changes, e.g. on hot-painted surfaces or after gluing/embedding heating mats and generally for tiles with an edge length of 50 cm or more indoors.

Product data

Toothing of the notched trowel	Quantity required	Yield from 20 kg GROSSFORMAT-KLEBER WAND & BODEN
6 x 6 x 6 mm	approx. 2.2 kg/m²	approx. 9.1 m²
8 x 8 x 8 mm	approx. 3.0 kg/m²	approx. 6.7 m²
10 x 10 x 10 mm	approx. 3.7 kg/m²	approx. 5.4 m²
Additional consumption for 2 mm filler layer	approx. 2.0 kg/m²	approx. 10 m²

Processing time (time in container)	3 hours.
Open time	approx. 30 minutes.
Processing temperature	5–25 °C.
Temperature resistance of the gluing	-25 °C to 100 °C.
Can be walked on/loaded	after 1 day/after 7 days.
Waiting time until jointing with LUGATO products	1 day, with tile-on-tile 2 days
Adhesive tensile strength	> 1.0 N/mm² for each type of storage (according to EN 1348, stoneware tiles).
Fire behaviour	class E.
Ingredients	cement, fillers, organic/inorganic additives.
Product characteristics	Fulfils the requirements of GEV-EMICODE® EC 1 PLUS for very low-emission products (further information available at www.emicode.com). No additional organic solvents.
Pack size	20 kg.
Shelf life	approx. 18 months in original packaging. Store in a dry place. All times based on 15–20 °C and 65 % rel. humidity.

Test certificate

I Tested as C2TE adhesive according to EN 12004 by MPA NRW Dortmund.

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EN 12004:2007+A1:2012:C2TES1
Verformbarer zementhaltiger Mörtel für erhöhte Anforderungen mit verringertem Abrutschen und verlängerter offener Zeit.
Innen uns außen.
EN 12004:C2TES1

Brandverhalten:	Klasse E
Haftzugfestigkeiten Trocken-/Nass-/Warm-/ Frost-Tauwechsellagerung:	≥ 1,0 N/mm²
Offene Zeit:	≥ 0,5 N/mm² (30 Min.)
Gefährliche Substanzen:	s. Sicherheitsdatenblatt

I The declaration of performance can be downloaded from the Internet at www.lugato.de.

Please note

I For gluing marble, LUGATO MARMOR + GRANIT KLEBER.
I Not suitable for seawater and brine baths in underwater areas.

Health & safety:





Hazard

Contains Portland cement. Causes skin irritations. 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. Use only 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. GISCODE: ZP1. Shows strong alkaline reactions when exposed to water. Avoid dust formation and mortar splashes.
A data sheet can be downloaded from the Internet at www.lugato.de.

UFI: Y474-FX7D-7209-71VU

Disposal: Recycle empty packaging.

If you're not sure of something, please ask!

Feel free to give us a call. You can reach the LUGATO experts at: +49 (0)40 6 94 07-222.

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.
The publication of this technical information sheet invalidates all previous editions. Subject to change without prior notice.

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