

CONTOPP®

GRAVEL BOND

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PROPERTIES

PRODUCT DESCRIPTION

Ready-to-use, odourless, latex-based binder for cement-bound gravel fillings with impact sound insulation requirements.

APPLICATION AREA

For the production of bonded, highly elastic gravel fillings with high stability, low residual moisture content and improved sound insulation on wooden floors in interior applications. The specific sound insulation criteria depend on the layer thickness of the bonded gravel filling, the dynamic stiffness of the impact sound insulation and the layer thickness of the overlying screed slab. Gravel fillings based on CONTOPP® Gravel Bond have been tested in accordance with ISO 10140-2 and achieve the highest sound insulation level, „Comfort“ (Sound Insulation in Timber Construction, 2019). Low-emission certified - EMICODE EC1^{plus}.



TECHNICAL DATA

CHARACTERISTICS

Colour:	white
Form:	liquid
Density (at 20 °C):	1.01 ± 0.01 g/ml
Processing temperature:	above + 5 °C
Shelf life:	approx. 12 months – protect from frost and direct sunlight
Supply form:	Disposable container: PE-HD-can: 20 kg net Reusable container: Container: 1000 kg net

MIXING MODEL

¹⁾ corresponds to 5.6 V-% of the cement weight

Formulation per 200 ltr. of mixture	CONTOPP®	Unit
Cement	12.5	kg
Air-dried basalt chippings 2/5	280	kg
Total water (including moisture of chippings)	max. 7	ltr.
CONTOPP® Gravel Bond	700 ¹	ml

DRYING AND SOUND INSULATION

²⁾ in accordance with Sound Insulation in Timber Construction – Fundamentals and Preliminary Design (2019)

Criteria	CONTOPP®	Unit
Readiness for installation ≤ 2 CM-%	48	hours
Standard impact sound level L _{n,w} (C _i)	≤ 46 (-2)	dB
Sound insulation level ²	„Comfort“	

This ideal levelling layer can only be produced by following the preparation instructions set out below. The moisture content of the chippings should not exceed 0.5% by mass. If the chippings are very damp, the amount of mixing water added must be significantly reduced or no mixing water added at all. For thicker chippings levelling layers > 40 mm, dry or artificially dried chippings are strongly recommended.

PROCESSING INFORMATION

BASIC MATERIALS

- Moderately damp or air-dried basalt chippings 2/5 or 4/8 in accordance with DIN EN 13139 with a maximum moisture content of 0.5% by weight.

RECIPE

- Stir CONTOPP® Gravel Bond at regular intervals before and during use.
- Recommended dosage range for CONTOPP® Gravel Bond depending on the gravel size: 5–6% by weight of cement
- Mixing time of at least 2 minutes after adding all components.

CONSTRUCTION CLIMATE CONDITIONS

- Store aggregate outdoors in a location protected from rain.
- If aggregate with a moisture content higher than 0.5% by mass is used (apparently damp aggregate), it must be ensured that the aggregate levelling layer adequately releases its residual moisture before further processing. To this end, favourable drying conditions should be ensured under normal construction climate conditions of +20 °C and a relative humidity of 65%, as well as the removal of excess moisture through cross-ventilation.
- As soon as the gravel filling has a moisture content of $\leq 2\%$, the gravel filling is considered sufficiently dry and ready for further processing.
- Furthermore, if further moisture release by diffusion cannot be ensured due to an underlying or overlying PE film, it is recommended that the gravel filling be allowed to dry sufficiently before further processing at layer thicknesses > 40 mm, even in the case of air-dried gravel.
- We generally recommend installing a full-surface self-adhesive protective membrane film on the underlying timber elements prior to laying the gravel filling.

GENERAL INFORMATION

STANDARDS AND TESTING REGULATIONS

- DIN EN 13139: Aggregate for mortar.
- DIN EN ISO 10140-3: Laboratory measurement of sound insulation of building elements – Part 3: Measurement of impact sound insulation
- DIN 4108-3: Thermal insulation and energy saving in buildings – Climate-related moisture protection – Requirements, calculation methods and guidelines for design and execution.

COMMENTS

The raw materials we process and the products we produce are subject to strict factory inspections. Do not use products from other manufacturers when using this product. It is stressed that our products and the procedure must be tested for suitability for the expected construction site conditions. The quality of screeds is essentially influenced by the quality of sand and cement, the mixing rates and the processing in accordance with approved screeding technology. Upon the publication all other previous copies shall become invalid.

Last updated: 23.09.2026