



CONTOPP®

GRAVEL BOND

Item number: 20.426

Technical data sheet

Product description

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

PROPERTIES

Application

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).

Specifications

Colour:	white
Form:	liquid
Density (at 20 °C):	1.01 ± 0.01 g/ml
Application temperature:	above +5 °C
Shelf life	Approx. 12 months – store away from direct sunlight and in a frost-free place
Packaging:	Disposable container: PE-HD can: 20 kg net Reusable container: Container: 1,000 kg net

TECHNICAL DATA

Mixing model

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

¹⁾ corresponds to 5.6% by volume of the cement weight

Drying and Sound insulation

¹⁾ in accordance with Sound Insulation in Timber Construction – Fundamentals and Preliminary Design (2019)

Criterion	CONTOPP®	Unit
Readiness for installation ≤ 2 CM-%	48	hours
Standard impact sound level L _{n,w} (C _i)	≤ 46 (-2)	dB
Sound insulation level ¹⁾	"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.

Raw 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

PROCESSING INFORMATION

Formulation

- 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.

SPECIAL INFORMATION

Standards and test specifications

- 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

GENERAL INFORMATION

Comment

The raw materials we process and the products we manufacture are subject to strict in-house quality controls. When using this product, no additives from other manufacturers may be used. Please note that our products and the application process must be checked to ensure they are suitable for the expected site conditions. The quality of the screed depends largely on the quality of the sand and cement, the mixing ratios and the application in accordance with recognised rules of screed laying technology. As we have no control over site conditions or the execution of the works, no legal liability can be derived from this technical data sheet. With the publication of this technical data sheet, all previous versions lose their validity.

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