Article n°: **20.292**

TECHNICAL DATA SHEET

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CONTOPP®
ULTIMATE SLIM

PROPERTIES

PRODUCT DESCRIPTION

- CONTOPP® ULTIMATE SLIM is an admixture for the production of fast-drying, thin-section screed constructions from 20 mm screed thickness. The excellent compactability of the modified screed mortar results in a very high flexural bending strength. This allows the use of the screed in residential construction while absorbing an area load of ≤ 2.0 kN/m2 and a point load of ≤ 1.0 kN (domestic use according to DIN EN 1991-1-1).
- For screeds on underfloor heating, CONTOPP® ULTIMATE SLIM is approved for use on studded and stapled boards or on Velcro systems with a screed thickness of ≥ 20 mm above the pipe.
- Thin-section screed constructions with a screed thickness of 20 mm, which are made using CONTOPP® ULTIMATE SLIM are ready to receive the final floor finish after ≥ 2 days.
- Low-emisssion certified - EMICODE® EC1^{PLUS}

APPLICATION AREA

- For the production of thin-section floating screeds for domestic use
- For producing screeds on underfloor heating
- For damp or outside areas
- Rehydration protection
- Contains tracer for a subsequent analysis in the screed

TECHNICAL DATA

CHARACTERISTICS

Colour:	reddish
Detection pigment:	yellow/blue
Form:	liquid
Density (at 20°C):	1.06 ± 0.02g/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 total **Reusable container:** Container: 1000 kg total

MIXING MODEL

Per 200L mix	CONTOPP®	Unit
Cement	62.5	kg
Sand 0/4	310	kg
ULTIMATE SLIM	0.5	ltr.
w/c-ratio	0.5	

STRENGTH AND DRYING TIME

Criteria	CONTOPP®	Unit
Compressive strength (28 days)	C40	N/mm^2
Flexural strength (28 days)	F7	N/mm^2
Receive final floor finish [1]	4	days

[1] refers to a screed thickness of 50mm (for heated screed over pipe).

LOAD-BEARING CAPACITY

Thickness	Square load	Unit	Point load	Unit
20 mm	2.0	kN/m^2	1.0	kN
25 mm	2.5	kN/m^2	1.5	kN
30 mm	3.0	kN/m^2	2.0	kN

Valid with a compressibility of the insulation up to 3mm and a thickness of the insulation of ≤ 40mm. If the thickness of the insulation is ≥ 40 mm, the screed thickness has to be increased by 5mm to stand the loads mentioned in the above table.

PROCESSING INFORMATION

BASIC MATERIALS

- CEM I or CEM II 42,5 R following EN 197-1
- Aggregates following EN 13139 - A/B grading curve for the 0/4 mm particle size fraction

RECIPE

- Stir the CONTOPP® ULTIMATE SLIM before use and regularly during use in order to prevent segregation!
- Dosage of CONTOPP® ULTIMATE SLIM to the moistened mix.
- W/C-ratio ≤ 0.50
- Mix for at least 2 minutes after adding all the components

CONSTRUCTION CLIMATE CONDITIONS

- Protect from draughts and direct sunlight during setting.
- Remove excess moisture through draft-free cross-ventilation (4 times a day for 20–30 minutes).
- Nature of construction and site preparation following general codes of practice.

MEASURING RESIDUAL MOISTURE CONTENT

- Prior to laying the top flooring, the residual moisture of the screed must be measured.
- According to the KNOPP's manufacturers advice all floor coverings must be laid under a residual moisture content of 3.0 CM-% using the carbide bomb measuring device (corresponds to approx. 4.5 Tramex reading – to be used only as indicator test).

GENERAL INFORMATION

SAFETY

- Always observe general work hygiene when using our products.
- CONTOPP® ULTIMATE SLIM is solvent-free and chloride-free.
- Our products do not deteriorate when stored properly. Therefore, stability and reactivity are not affected by storage.
- Find out more information on handling CONTOPP® ULTIMATE SLIM from our safety data sheets.

STANDARDS AND TESTING REGULATIONS

- EN 13139: Aggregates for mortar
- EN 197: Cement – Part 1: Composition, specifications and conformity criteria for common cements

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. Since we have no control over site conditions or construction practices, no legal liability can be derived from this technical data sheet. Upon the publication all other previous copies shall become invalid.

Last updated: 21.09.2026