Technical Date Sheet

KNOPP
Adolf-Oesterheld-Str. 1
D-97337 Dettelbach
Tel: +49(0)9324/9199-0
Fax: +49(0)9324/9199-66
info@knopp-chemie.com
www.knopp-chemie.com

CONTOPP®

ULTIMATE SLIM

Artikelnummer: 20.292

PROPERTIES

Function

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 a square 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.

Function

- For the production of thin-section floating screeds for domestic use
- For producing screeds on UFH
- Suitable for wet rooms and outdoor areas
- Rehydration protection
- Contains tracer for a subsequent analysis in the screed
- Emissions test according to AgBB 2021– EMICODE EC1plus

GEV-EMICODE EC 1 PLUS very low emission

TECHNICAL DATA

Data

Colour:	Reddish
Colour tracer-pigment:	Yellow/blue
Form:	liquid
Density (at 20°C):	1.06 ± 0.02g/ml
Processing temperature:	above + 5°C
Shelf life	ca. 12 months – protect from frost and direct sunlight
Supply form:	PE-HD-can: 20kg netto
	Container: 1,000kg netto

Mix

Per 200 l mix		
Cement	62.5	kg
Sand 0/4	310	kg
ULTIMATE SLIM	0.5	l
w/c-ratio	0.50	

Strength and drying time

Criteria		
Flexural bending strength (28 d)	F7	N/mm²
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		Point load	
20mm	2.0	kN/m²	1.0	kN
25mm	2.5	kN/m²	1.5	kN
30mm	3.0	kN/m²	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 following EN 197
- Aggregates following EN 13139

Technical Date Sheet

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 site conditions

- Protect screed from draughts and direct sunlight during setting.
- Remove surplus moisture by means of draught-free ventilation (natural ventilation).
- 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 by the person laying the floor.
- 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).

SPECIAL INFORMATION

Evidence of correct use and dosage

Subsequent proof of the use of **CONTOPP® ULTIMATE SLIM** is possible on a sample by using suitable UV light sources under laboratory conditions.

Health & 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, the 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 for cements

GENERAL INFORMATION

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.

Stand 01.12.24