

CONTOPP®

ZERO 21

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PROPERTIES

PRODUCT DESCRIPTION

- Reliable drying of semi-dry cement cement screeds – from 21 days depending on dosage
- Moisture measurement according to DIN and BS standards
- Improve workability
- Reduce rehydration
- Reduce shrinkage – Shrinkage class SW2
- Low-emission certified – EMICODE® EC1^{PLUS}

APPLICATION AREA

- For producing highly stressed, sand/cement wearing screeds
- For producing screeds on underfloor heating
- For damp or outside areas



TECHNICAL DATA

CHARACTERISTICS

Colour:	milky blue
Form:	liquid
Density (at 20 °C):	1.02 ± 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 total Reusable container: Container: 1000 kg total

MIXING MODEL

Formulation per mix	Model A	Model B	Unit
Cement	50	50	kg
Sand ¹	320	320	kg
CONTOPP® ZERO 21	0.5 ²	0.3 ³	ltr.
w/c-ratio	0.50	0.55	

STRENGTH

Criteria	Model A	Model B	Unit
Flexural strength (28 days)	F5	F4	N/mm ²
Compressive strength (28 days)	C25	C20	N/mm ²

FLOOR FINISH

¹ according to BS EN 13139

² corresponds to 1.0 V-% of the cement weight

³ corresponds to 0.6 V-% of the cement weight

Criteria	Model A	Model B	Unit
Foot traffic	24	36	hours
Ready-to-lay	21	28	days

This ideal screed mortar can only be manufactured whilst adhering to the processing information listed below. The details refer to 50mm screed thickness without under floor heating (UFH) and 65mm screed thickness with under floor heating, normal climatic conditions at + 20°C and a relative humidity of 65%. A lower grainsize of sand of less than 8mm can lead to lower strength development. However, when the mixing ratios of the standard mixture and the CONTOPP® mixture are varied, the quality of the screed mortar enhanced with CONTOPP® will generally be higher than that of the standard mixture.

PROCESSING INFORMATION

BASIC MATERIALS

- OPC or blends following BS EN 197-1. CEM II/C usage possible after individual approval.
- Aggregates following EN 12620

RECIPE

- Stir the CONTOPP® ZERO 21 before use and regularly during use to prevent segregation!
- Stick to the dosage (0.3 – 0.5 litres per mixture/50 kg – corresponds to 0.6 – 1.0% by volume of the cement weight); ingredients should be added to the moistened mix.
- W/C-ratio ≤ 0.55
- 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 by the person laying the floor.
- According to KNOPP's manufacturers' advice all floor coverings must be laid under a residual moisture content of 2.0 % for unheated and 1.8 % for heated floor screeds by using the carbide bomb measuring device.

GENERAL INFORMATION

SAFETY

- Always observe general work hygiene when using our products.
- CONTOPP® Zero 21 is solvent-free and chloride-free.
- Our products do not deteriorate when stored properly. Therefore, stability and reactivity are not affected by storage.
- You can find out more information on handling CONTOPP® Zero 21 from our safety data sheets.

STANDARDS AND TESTING REGULATIONS

- BS 8203: Installation of resilient floor coverings
- BS 8204: In-situ floorings – bases and screeds
- BS 8000: Code of practice for cement/sand floor screeds and concrete floor toppings
- BS EN 12620: Aggregates for mortar
- BS 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.

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