



CONTOPP®

ZERO 21

Article number: 20.913

Technical
Data
Sheet

Function

- Reliable drying of semi-dry cement screeds – from 21 days depending on dosage.
- Moisture measurement according to DIN and BS standards
- Improved workability
- Reduced re-hydration
- Optimised shrinkage
- Low emission output approved according to AgBB 2021– EMICODE EC1^{plus}



PROPERTIES

Application area

- For producing bonded screeds and floating screeds in accordance with BS 8204
- For producing screeds on underfloor heating.
- For damp or outside areas.

Data

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 sun light
Supply form:	Single use packing:
	PE-HD can: 20 kg net
	Multi use packing:
	IBC: 1.000 kg net

TECHNICAL DATA

Mix

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

Strength

Criteria	Modell A	Modell B	Unit
Flex strength (28 days)	F5	F4	N/mm ²
Compr. strength (28 days)	C25	C20	N/mm ²

Ready-to-lay

- 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	Modell A	Modell 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 a thickness of 40 - 50 mm for un-heated and 65 – 70 mm for heated screeds, normal climatic conditions at + 20 °C and a relative humidity of 65 %. In case of variations of standard or CONTOPP® mixes, the quality of screed mortars containing CONTOPP® Zero 21 will always be higher compared to standard ones.

Basic Materials

- OPC or blends following BS EN 197. CEM II/C usage possible after individual approval.
- Aggregates following BS EN 13139.

PROCESSING INFORMATION

Recipe

- **Stir the CONTOPP® ZERO 21 before use and regularly during use to prevent segregation!**
- Stick to the dosage (0.3 – 0.5 liters per mixture/50 kg – corresponds to 0.6 – 1.0% by volume of the cement weight). Add to the moistened mixture. W/c-value < 0,55
- Mix for at least 2 minutes after adding all the components.



Construction site conditions

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

PROCESSING INFORMATION

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 2.0 % for un-heated and 1.8 % for heated floor screeds by using the carbide bomb measuring device.

SPECIAL INFORMATION

Health & 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 (see data). Therefore, the stability and reactivity is 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 13139: Aggregates for mortar
- BS EN 197: Cement – Part 1: Composition, specifications, and conformity criteria for common 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. As we do not have any control about site conditions or working execution, this technical data sheet cannot be held responsible for any legal action. Upon the publication all other previous copies shall become invalid.

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