Technical datasheet

CONTOPP®

RS 10 B

Article n°: 20.241

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PROPERTIES

Function

- Quick to dry sand/cement screeds within 14 days – tailored on semi-dry consistency
- Rehydration protection
- Contains tracer for a subsequent half-quantitative analysis in sand/cement screeds

Application area

- For producing bonded screeds and floating screeds
- For producing screeds on underfloor heating.
- For damp or outside areas.
- EMICODE EC1 plus

GEV-EMICODE EC 1 PLUS very low emission

TECHNICAL DATA

Data

Colour:	milky green
Colour tracer-pigment:	green
Form:	liquid
Density (at 20 °C):	1.05 ± 0.01g/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

1 : 6 mix by weight	Standard	CONTOPP®	Unit
Cement	50	50	kg
Sand 0/8 [1]	320	320	kg
RS 10 B	-	0.5[2]	ltr.
w/c-ratio	0.70 - 0.80	0.53 – 0.55	

Strength

Criteria	Standard	CONTOPP®	Unit
Flexural strength (28 days)	F4	F5	N/mm²
Comp. strength (28 days)	C20	C25	N/mm²
BRE test (impact resistance)	Category B	Category A	

Floor Finish

Criteria	Standard	CONTOPP®	Unit
Foot traffic	72	36	hours
Receive final floor finish	≥ 28	14	days

[1] according to BS EN 13139

[2] corresponds to 1.0 V-% of the cement weight

This ideal screed mortar can only be manufactured whilst adhering to the processing information listed below. The details refer to 40 – 50mm screed thickness without UFH and 65 – 70mm screed thickness with UFH, normal climatic conditions at + 20°C and a relative humidity of 65%. Using sand with maximum grainsize < 8mm strength can be lower.

PROCESSING INFORMATION

Basic materials

- CEM I or CEM II following EN 197
- Aggregates following EN 13139.

Recipe

- **Stir the CONTOPP® RS 10 B before use and regularly during use in order to prevent segregation!**
- Stick to the dosage (1.0 V-% of 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 site conditions

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

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- Nature of construction and site preparation following general codes of practice.

SPECIAL INFORMATION

Minimum screed thickness [1]

Flexural strength	Bonded	Unbonded	Floating	on underfloor heating [2] [3]
5 N/mm²	Standard: 20 mm Heavy duty: 20 mm	Standard: 40 mm Heavy duty: 40 mm	Standard: 40 mm Heavy duty: 65 mm	Standard: 50 mm Heavy duty: 65 mm

[1] Working load: Standard ≤ 2.0 kN/m²; Heavy duty: ≤ 3.5 kN/m²
[2] In the case of screeds on underfloor heating thickness above the pipes
[3] No steel reinforcement required

Drying time [1] [2]

Screed thickness	20 mm	30 mm	40 mm	50 mm	60 mm	70 mm
≤ 3.0 CM-% residual humidity [2]	2 days	5 days	9 days	14 days	20 days	27 days

[1] Normal climatic conditions at + 20 °C and a relative humidity of 65 % without UFH
[2] The residual moisture content must be tested prior to the application of the final floor finish (CM-method).

Screed on underfloor heating - start-up heating protocol [1] [2]

Heating process [3]	4th day	5th day	6th day	7th day	8th day	9th day	10th day	11th day	12th day
Temperature	25°C	35°C	45°C	55°C	55°C	55°C	45°C	35°C	25°C

[1] It can be useful to lengthen the heating procedure for screed thicknesses of > 50mm above the pipes to achieve sufficient drying.
[2] During the heating phase do not carry out any finishing work and do not cover or block the screed surface.
[3] UFH must be switched off during the laying of the screed.

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).

GENERAL INFORMATION

Health & Safety

- Always observe general work hygiene when using our products.
- CONTOPP® accelerator systems are solvent-free and chloride-free.
- Our products do not deteriorate when stored properly. Therefore, the stability and reactivity are not affected by storage.
- You can find out more information on handling CONTOPP® accelerators 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. Upon the publication all other previous copies shall become invalid.

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