

**Technical** 

datasheet

## **CONTOPP®**

**RS 15 B** Article n°: 20.246

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**PROPERTIES** 

- Quick to dry sand/cement screeds within 9 days tailored on semi-dry consistency
- Rehydration protection

**Function** 

• 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



### Data

Colour: milky red
Colour tracer-pigment: red
Form: liquid

Density (at 20 °C):  $1.08 \pm 0.01$ g/ml Processing temperature: above + 5°C

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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 15 B	-	0.52)	ltr.
w/c-ratio	0.70 - 0.80	0.50 - 0.52	

### Strength

Criteria	Standard	CONTOPP®	Unit
Flexural strength (28 days)	F4	F5	N/mm <sup>2</sup>
Comp. strength (28 days)	C20	C25	N/mm <sup>2</sup>
BRE test (impact resistance)	Category B	Category A	

### **Floor Finish**

1)according to BS EN 13139

<sup>&</sup>lt;sup>2)</sup> corresponds to 1.0 V-% of the cement weight

Criteria	Standard	CONTOPP®	Unit
Foot traffic	<i>7</i> 2	36	hours
Receive final floor finish	≥ 28	9	days

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.

### **Basic materials**

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

### Recipe

- Stir the CONTOPP® RS 15 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 < 0.52</li>
- 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).

**TECHNICAL** 

**DATA** 

**PROCESSING** 

**INFORMATION** 



## Technical datasheet

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

### Minimum screed thickness 1)

Flexural strength	Bonded	Unbonded	Floating	on underfloor heating <sup>2) 3)</sup>
5 N/mm <sup>2</sup>	Standard: 20 mm	Standard: 40 mm	Standard: 40 mm	Standard: 50 mm
	Heavy duty: 20 mm	Heavy duty: 40 mm	Heavy duty: 65 mm	Heavy duty: 65 mm

<sup>&</sup>lt;sup>1)</sup> Working load: Standard ≤ 2.0 kN/m²; Heavy duty: ≤ 3.5 kN/m²

### Drying time 1) 2)

Screed thickness	20 mm	30 mm	40 mm	50 mm	60 mm	70 mm
≤ 3.0 CM-% residual humidity <sup>2)</sup>	1 days	3 days	6 days	9 days	13 days	18 days

 $<sup>^{1)}</sup>$  Normal climatic conditions at + 20  $^{\circ}$ C and a relative humidity of 65 % without UFH

## Screed on underfloor heating - start-up heating protocol 1) 2)

Heating process <sup>3)</sup>	3 <sup>th</sup> day	4 <sup>th</sup> day	5 <sup>th</sup> day	6 <sup>th</sup> day	7 <sup>⊪</sup> day	8 <sup>th</sup> day	9 <sup>th</sup> day	10 <sup>th</sup> day	
Temperature	25°C	35°C	45°C	55°C	55°C	45°C	35°C	25°C	

<sup>&</sup>lt;sup>1)</sup> It can be useful to lengthen the heating procedure for screed thicknesses of > 50mm above the pipes to achieve sufficient drying.

### 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).

### **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.

### **Stand** 01.08.2024

# GENERAL

**INFORMATION** 

**SPECIAL** 

**INFORMATION** 

<sup>2)</sup> In the case of screeds on underfloor heating thickness above the pipes

<sup>3)</sup> No steel reinforcement required

<sup>&</sup>lt;sup>2)</sup> The residual moisture content must be tested prior to the application of the final floor finish (CM-method).

<sup>&</sup>lt;sup>2)</sup> During the heating phase do not carry out any finishing work and do not cover or block the screed surface.

<sup>3)</sup> UFH must be switched off during the laying of the screed.