

**Technical** 

datasheet

## **CONTOPP®**

**RS 10 B** Article n°: 20.241

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### **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 in accordance with BS 8204
- For producing screeds on underfloor heating.
- For damp or outside areas.
- EMICODE EC1 plus



Colour: milky green
Colour tracer-pigment: green

Form: liquid

Density (20 °C):  $1.05 \pm 0.01 \text{ g/ml}$ Processing temperature: above + 5 °C

Shelf life ca. 12 months – protect from frost and direct sunlight

Supply form: PE-HD-can: 20 kg netto

Container: 1.000 kg netto

#### Mix

1 : 6 mix by weight	Standard	CONTOPP®	Unit
Cement	50	50	kg
Sand 0/4 1)	320	320	kg
RS 10 B	-	0.52)	ltr.
w/c-ratio	0. <i>7</i> 0 - 0.80	0.53 – 0.55	

## Strength

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

## **Floor Finish**

<sup>1)</sup>according to BS EN 13139

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

Standard	CONTOPP®	Unit
<i>7</i> 2	36	hours
≥28	14	days
	72	72 36

This ideal screed mortar can only be manufactured whilst adhering to the processing information listed below. The details refer to 50 mm screed thickness, normal climatic conditions at + 20 °C and a relative humidity of 65 %.

### **Basic materials**

- OPC oder blends following BS EN 197.
- Aggregates following BS 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</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).
- Nature of construction and construction site preparation following BS 8204-1 and 8000.

## **PROPERTIES**

## TECHNICAL DATA

**PROCESSING** 

**INFORMATION** 



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## Minimum screed thickness 1)

Flexural strength	Bonded	Unbonded	Floating	on underfloor heating <sup>2)</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/m<sup>2</sup>; Heavy duty: ≤ 3.5 kN/m<sup>2</sup>

## Drying time 1) 2)

Screed thickness	20 mm	30 mm	40 mm	50 mm	60 mm	70 mm
≤ 3.0 % residual humidity <sup>2)</sup>	8 days	10 days	12 days	14 days	16 days	20 days

 $<sup>^{1)}</sup>$  Normal climatic conditions at + 20  $^{\circ}$ C and a relative humidity of 65  $^{\circ}$ 

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

Heating process after laying	4 <sup>th</sup>	5 <sup>th</sup>	6 <sup>th</sup>	7 <sup>th</sup>	8 <sup>th</sup>	9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>
	day	day	day						
Temperature	25°C	35°C	45°C	55°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 > 50 mm 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.
- Whilst adhering to all the manufacturer's details, BS 8203 recommends laying the screed under 75 % relative humidity.
- According to the KNOPP's manufacturers advice all floor coverings must be laid under a
  residual moisture content of 3.0 % 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 (see data). Therefore, the stability and reactivity is not affected by storage.
- You can find out more information on handling CONTOPP® accelerators 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

#### 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** 01.01.2024

**INFORMATION** 

**GENERAL** 

**SPECIAL** 

**INFORMATION** 

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

<sup>2)</sup> Following BS 8024 residual moisture content must be tested prior to the application of the final floor finish.

<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.