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CONTOPP®

ACCELERATOR 10 Article number: 20.210

Technical Leaflet

Function

Quick to dry.

Application area

- For producing bonded screeds and floating screeds in accordance with BS 8204.
- For producing thermo floors.
- For damp or outside areas.

Data

Colour: green Form: liquid

Density (20°C): 1.05 ± 0.01 g/ml Processing temperature: as of + 5 °C

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

Supply form: PVC can: 30 kg net Poly drum: 210 kg net

Container: 1.000 kg net

Mix	Recipe per mix	Standard	CONTOPP®	Unit
	Cement	50	50	Kg
	Sand 1)	320	320	Kg
	Additive Acc. 10	_	0.5 2)	
	W/c ratio	0.70 – 0.8	0 0.55 – 0.57	

Strengths	Criteria	Standard	CONTOPP®	Unit
	Strength in flexure (28 days)	F4	F4	N/mm ²
	Comp. strength (28 days)	C20	C25	N/mm ²

Floor Finish Criteria Standard CONTOPP® Unit " according to BS EN 13139 Foot Traffic 72 36 hours Floor Finish ³ ≥ 28 16 - 18 days

1.1 M-% of the cement weight.

3) according to BS 8204-1.

This ideal screed mortar can <u>only</u> be manufactured whilst adhering to the processing information listed below. The details refer to 65 mm screed thickness, normal climatic conditions at + 20 °C and a relative humidity of 65 %. If the mixing conditions in accordance with BS 8204-3 are not complied with, when using a CONTOPP® accelerator system the quality of the screed mortar should still generally be improved.

Basic materials

- CEM I 32.5 R in accordance with BS EN 197.
- Sand in accordance with BS EN 13139.

Recipe

- Stick to the dosage (1.1 % of cement weight); The ingredients should be added to the moistened mix.
- w/c ratio < 0.57
- 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.

Assessing ready-to-lay

- 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.

TECHNICAL DATA

CHARACTERISTIC

PROCESSING INFORMATION

²⁾ corresponds to

CONTOPP® Standard w/z 0,25-0,30w/z 0.30 - 0.35Saved water **Exessive water** Additional bond water w/z 0,05 - 0,10 Residual moisture w/z 0,05 - 0,10 Residual moisture w/z 0,10-0,15 w/z 0,10-0,15 Water Water (Physical bond) (Physical bond) z ca. 0,25 w/z ca. 0.25Water Water (Chemical bond) (Chemical bond)

What is happening with the moisture?

Figure 1

Methods for determining residual moisture

Measuring the relative air humidity in accordance with BS 8203
 This non-destructive measuring procedure is very reliable because of its high accu-

is very reliable because of its high accuracy. Nevertheless, the method takes a long time (up to 72 hours) and ignores the temperature parameters. The dependence on relative air humidity and temperature is however sufficiently well known. The BS 8203 recommends laying the screed under 75 % relative air humidity.

 CM measurement in accordance with European standards

This measuring method is highly precise and involves minimum time (c. 10 min) and is therefore perfectly suitable for construction site testing. In the case of CONTOPP® accelerators, the manufacturer stipulates deducting 1.0 CM % of the read value. This is additional water that is recorded during the measurement, but is not damaging (fig. 1). According to the information sheet of the Bundesverband Estrich und Belag (BEB), all floor coverings may be laid under a residual moisture of 2.0 CM % for unheated systems and under 1.8 CM % for heated systems.

• Measuring the capacitive capabilities (Tramex® value)

This non-destructive measuring method provides solid estimates for the moisture in screeds and can be carried out in just a small amount of time. 3 – 5 measurements should be taken for every 40 m² screed surface. The highest value is decisive!

SPECIAL INFORMATION

KNOPP provides guide numbers for the correlation of all measurements. These numbers are based on many years experience determining residual moisture in screeds: 75 % LF \cong 2.0 CM \cong 4.5 Tramex $^{\circ}$ value

Safety

- Always observe general work hygiene when using our products.
- CONTOPP® accelerators are solvent-free, chloride-free and safe in terms of organic architecture.
- 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 additives 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 extremly influenced by the quality of sand and cement, the mixing rates and the processing in accordance with aproved screeding technology.

As we have no control over construction site conditions or the execution of the work, we cannot be held legally liable as a result of the information included in this leaflet. Upon the publication of this leaflet all other previous copies shall become invalid.

Valid from

01.02.2005

GENERAL INFORMATION