



# CONTOPP®

## XtraCem 30

Article no.: 09.200

**Technical  
Data  
Sheet**

### Description

Dimensionally stable hardening, ternary rapid cement for the production of fast-track cement screeds for use indoors and outdoors with a working time of up to 2 hours.

### PROPERTIES

### Function

- Ready to receive tiling after 24 hours and all other floor coverings after 4 days
- Shrinkage reduced - dimensionally stable hardening
- Quickly ready to bear loads as result of high early strength
- High final strength
- Extra-long working time
- Walkable at an early stage
- EMICODE according to GEV: EC1PLUS R very low emissionPLUS
- Contains tracer for a subsequent half-quantitative analysis in sand/cement screeds

### Field of application

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

### \* Characteristics

Colour:	Grey
Detection pigment:	Red-fluorescent
Working temperature:	+ 5 °C up to 25 °C ground-level temperature
Working time:	120 minutes
Receive final floor finish:	24 hours for ceramic tiles and non-sensitive natural stone 4 days for all other floor coverings
Strength classes:	CT-C35-F5 – CT-C40-F6
Foot traffic:	approx. 12 hours
Heating process after laying:	4 days after screed installation
Can be stored for:	approx. 12 months in dry frost-free rooms protected against sunlight
Form of delivery:	paper sack, net weight 25 kg

\*all data based on a temperature of 20 °C and 65% RH

### TECHNICAL DATA

### Mixing model

per 200 l. of mortar

Mix design	1 : 6	1 : 5	Unit
CONTOPP® XtraCem 30	50	63	kg
Sand 0/8	320	310	kg
w/c ratio	0.42	0.38	kg

### Consumption

per m<sup>2</sup> and 10 mm

	1 : 6	1 : 5	Unit
CONTOPP® XtraCem 30	2.6	3.1	kg

### Flexural strength

in accordance with  
DIN EN 13813

Screed age	1 : 6	1 : 5	Unit
28 days	F5	F6	N/mm <sup>2</sup>
7 days	F3	F4	N/mm <sup>2</sup>
1 day	F3	F3	N/mm <sup>2</sup>

### Compressive strength

in accordance with  
DIN EN 13813

Screed age	1 : 6	1 : 5	Unit
28 days	C35	C40	N/mm <sup>2</sup>
7 days	C30	C35	N/mm <sup>2</sup>
1 day	C16	C20	N/mm <sup>2</sup>



**TECHNICAL  
DATA**

<b>Minimum thickness</b>	<b>Load*</b>	<b>1 : 6 (CT-C35-F5)</b>	<b>1 : 5 (CT-C40-F6)</b>	<b>Unit</b>
for floating screeds on insulation and pipework covering in the case of floor-heating screeds	2 kN/m <sup>2</sup>	45	40	mm
	3 kN/m <sup>2</sup>	60	50	mm
	4 kN/m <sup>2</sup>	70	60	mm

\* Working load in accordance with DIN EN 1991-1-1

<b>Minimum thickness</b>	<b>Load*</b>	<b>1 : 6 (CT-C35-F5)</b>	<b>1 : 5 (CT-C40-F6)</b>	<b>Unit</b>
for unbonded screeds on polythene sheet	2 kN/m <sup>2</sup>	35	35	mm
	3 kN/m <sup>2</sup>	45	40	mm
	4 kN/m <sup>2</sup>	50	45	mm

\* Vertical load capacity in accordance with DIN EN 1991-1-1

<b>Drying time*</b>	<b>Floor finish</b>	<b>Heated</b>	<b>Unheated</b>
for 50 mm installed thickness or pipework covering	Tiles and impervious natural stone	≤ 2.0 CM-%	approx. 24 hrs
	Non-sensitive natural stone in thin-bed, medium-bed and thick-bed	≤ 2.0 CM-%	approx. 4 days ≤ 2.0 CM-%
	Wood, laminate as well as textile and elastic coverings	≤ 1.8 CM-%	approx. 4 days ≤ 2.0 CM-%

\* all data based on a temperature of 20 °C and max. 65% RH

**Base materials**

- Washed screed sand A/B 8 in accordance with DIN EN 13139

**PROCESSING  
INFORMATION**

**Working**

- All commonly used screed mixing pumps are suitable for mixing. The individual filling volumes specified by the machine manufacturers must be complied with.
- Mix the screed mortar in the desired mixing ratio according to "Mixing model" (page 1). Add approx. 30 shovels of sand based on a mixing ratio of 1 : 5 and approx. 35 shovels based on a mixing ratio of 1 : 6
- The amount of water to be added depends on the sand moisture content, and is normally between 10 and 14 litres per mixture. The total water content amounts to approx. 24 litres with a mixing ratio of 1 : 5 (water saving 0.38) and approx. 22 litres with a mixing ratio of 1 : 6 (water saving 0.44).
- Do not mix in any other cements or screed additives.
- Mixing time of at least 2 minutes after addition of all constituents.
- The working time of the fresh mortar is 2 hours at 20 °C. Higher temperatures shorten the processing time and lower temperatures extend it.

**Construction site conditions**

- Protection against draughts and direct sunlight during hardening.
- Removal of excess moisture by way of draught-free shock ventilation (4 x 20 - 30 min. daily).
- Nature of construction and site preparation in accordance with DIN 18560.

**Instructions on applying floor covering**

- The limit values regarding readiness for the laying of final floor finishes are based on the information given in the table "Drying time" table (page 2).
- In accordance with DIN 18560-1, the screed's residual moisture must first be measured using the CM method before the floor top covering is laid.
- According to DIN 18560-1, all types of floor finishes may be laid with a residual moisture content of 2.0 CM% for unheated systems and less than 1.8 CM% for heated systems. Tiles and non-sensitive natural stone coverings can be laid on unheated cement screed based on CONTOPP® XiraCem 30 after 24 hours without prior CM measurement.
- Where tiles are to be laid after 24 hours, the screed has only reached about 50% of its final strength. This means that no heavy loads, for example machines or pallets with tiles, are to be stored on the screed surface.



### Safety

- When using our products, ensure that the general principles of occupational hygiene are applied.
- CONTOPP® XtraCem 30 contains cement and can therefore cause skin irritation and severe eye damage. CONTOPP® XtraCem 30 should not be handled by children. Wear protective gloves and eye protection. Ensure that the products do not come into contact with your eyes, skin or clothing.
- IF PRODUCT COMES INTO CONTACT WITH EYES: rinse gently with water for several minutes. If possible, remove contact lenses. Continue rinsing. In case of persistent eye irritation: seek medical advice/medical attention.
- If swallowed, seek medical advice immediately and show the physician the respective container or label.
- Store in a dry place.
- Dispose of contents/containers, REPASACK take-back system.
- GISCODE ZP1 = cement-based product, low in chromate
- Emission tested construction product: EC1PLUS R
- The EMICODER EC 1 PLUS seal is the seal subject to the highest emission requirements in Germany and therefore in all cases complies at least with the requirements of the evaluation scheme for building materials as developed by the Committee for Health-related Assessment of Building Products (AgBB).

## GENERAL INFORMATION

### Standards and test regulations

- DIN EN 13813: Screed material and floor screeds
- DIN EN 13139: Aggregates for mortar
- DIN EN 1991-1-1: General actions on structures
- DIN 18560: Floor screeds in building construction, parts 1 – 7
- BEB (2011): Interface coordination for heated floor constructions

### Comment

The raw materials we process and the products we manufacture are subject to stringent factory inspections. This product may only be used without any additives from other manufacturers. We draw attention to the necessity to check and ensure that our products and the process are suitable for use under the conditions to be expected on the building site. The quality of the screed essentially depends on the sand, the mixing ratios and processing in accordance with the acknowledged rules of screed technology. No statutory liability can be derived from this leaflet since we have no control over the building site conditions or the construction work where our products are used. This publication of our leaflet replaces all previous versions which therefore lose their validity.

### Version

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