



CONTOPP®

HARDENING AGENT 40

Article number: 20.340

**Technical
Leaflet**

Funktion

- Achieves high-quality CT quality classes dependent on the dosage.
- Plasticising

Application area

- To produce highly-resistant, cement-bonded utility screeds with problematic sands.
- To produce thermo-screeds.

Data

Colour:	Yellow-brownish
Form:	liquid
Density (20 °C):	1.18 ± 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: 35 kg net Poly drum: 240 kg net Container: 1.200 kg net

Mix

Recipe per mix	Standard	CONTOPP®	Unit
Cement	50	50	kg
Sand 0/4 ¹⁾	320	320	kg
Additive Hardening Ag. 40	–	1.0 ²⁾	ltr.
w/c ratio	0.70 – 0,80	0.45 – 0.55	

Strength

Criteria	Standard	CONTOPP®	Unit
Strength in flexure (28 days)	F3	F6	N/mm ²
Comp. strength (28 days)	C16	C35	N/mm ²

1) according to BS EN 13139
2) corresponds to 2.0 V-% of the cement weight.
This ideal screed mortar can only be produced whilst adhering to the processing information listed below.

Basic materials

- CEM I 32.5 R or CEM II (A-types recommended) 32.5 R in accordance with BS EN 197.
- Sand 0/4 in accordance with BS EN 13139.

Recipe

- Stick to the dosage (1.0 l per 50 kgs CEM).
- The additive is added to the moistened mix.
- w/c ratio < 0.55
- Increased water saving must be taken into consideration!
- 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.

CHARACTERISTICS

TECHNICAL DATA

**PROCESSING
INFORMATION**

Methods for determining residual moisture

- The British Standard for testing a base to receive a resilient floor covering is to use a hair hygrometer. This provides a non-destructive test and when tested strictly to the method defined in BS 8203 will give reliable results. CONTOPP® hardening agents for RH near to 75% (the required limit for floor finishes).
- The European standards for testing cementitious screeds recommend the CM (Carbide Bomb) of testing. Typical requirements will be for a maximum of:
2.0 CM -% water for unheated systems
1.8 CM -% water for heated systems

SPECIAL ADVISES

Compatibility with CONTOPP® products

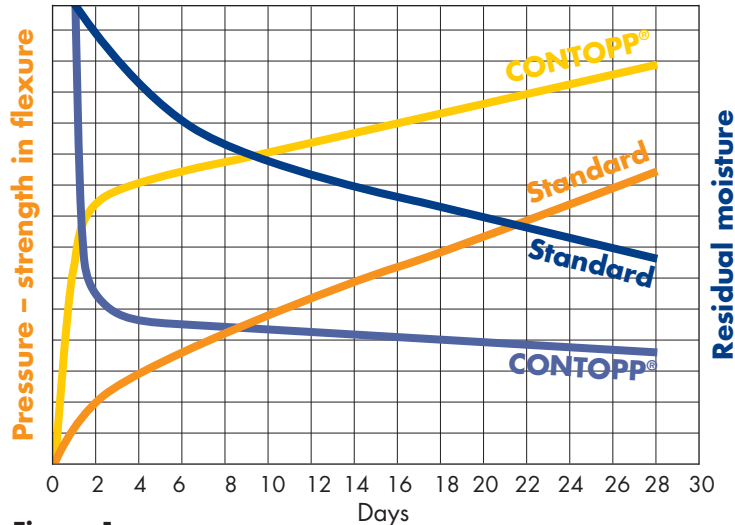


Figure 1

- When using CONTOPP® products, the technical values for strengths, drying times and water saving positively stand out compared with a standard mix. Even if using CEM II and problematic sands.
- By combining products of the CONTOPP® range, properties like drying course, strength and processing are positively influenced (fig. 1).

Safety

- Always observe general work hygiene when using our products.
- CONTOPP® hardening agents 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 up to 12 months.
- You can find out more information on handling CONTOPP® hardening agents 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

GENERAL INFORMATION

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 extremely influenced by the quality of sand and cement, the mixing rates and the processing in accordance with approved 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