



CONTOPP®

RETARDING AGENT 10

Article number: 30.310

Technical Leaflet

Function

- Delays the onset of curing
- Extends the processing capabilities
- Improves the processing with increased plasticity
- Latent increase in strength

Application area

- Setting retarding agent saccharose / phosphate-based for producing conventional cement screeds with interim work stoppages also with warm weather conditions.

Data

Colour:	brown
Form:	liquid
Density (20 °C):	1.10 ± 0.02 g/ml
Processing temperature:	as of + 5 °C
Shelf life:	c. 12 months – protect from frost and direct sunlight
Supply form:	PE-HD can: 20 kg net Poly drum: 240 kg net Container: 1.100 kg net

Mix

- ¹⁾ At lower w/c ratios the dosage must be raised accordingly.
²⁾ The dose must be established by means of preliminary tests. These ideal retarding agent times can **only** be achieved whilst adhering to the processing information listed below.

		w/c-ratio = 0,50 - 0,55 ¹⁾							
		Retarding agent times in hours							
		3	5	7	9	11	14	17	20
		Dosage CONTOPP® Retarding Agent 10 ²⁾							
		In litres per 100 kg CEM I 32.5 R							
Screed temp.	+10 °C	–	–	0,15	0,23	0,30	0,45	0,60	0,68
	+15 °C	–	0,08	0,23	0,30	0,38	0,53	0,75	1,20
	+20 °C	0,05	0,15	0,30	0,38	0,53	0,75	0,98	
	+25 °C	0,15	0,23	0,38	0,53	0,68	1,05		
	+30 °C	0,23	0,30	0,45	0,60	0,83			

Basic materials

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

Recipe

- Dose between 0.5 – 12 ml / kg cement (establish from preliminary tests)
- w/c ratio < 0.55
- The mixing water requirement is reduced. The water saving must be taken into consideration!
- Mix for at least 2 minutes after adding all the components.

Processing

- CONTOPP® Retarding Agent 10 inhibits the hydration of the cement and delays the setting of the screed. However, once the reaction has taken place, it then continues to take its normal course, which also enables an increase in final stiffness.
- 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® retarding agents for RH near to 75% (the required limit for floor finishes).
- The European standards for testing cementary 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

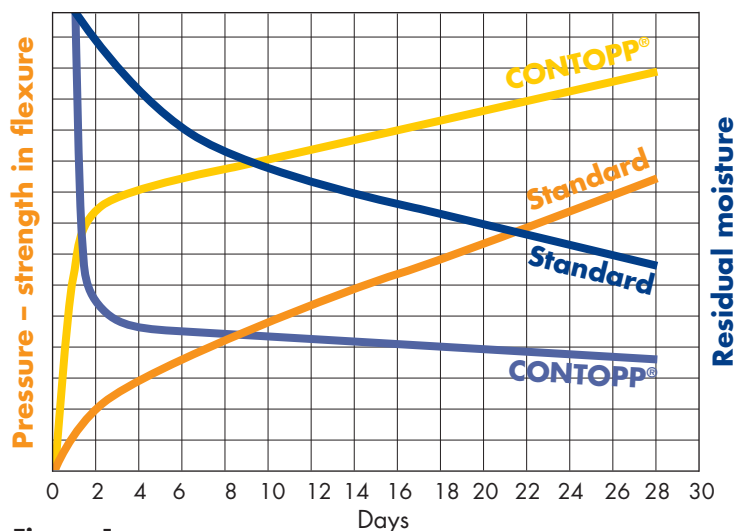


Figure 1

- 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 additives.
- 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® retarding 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® retarding 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

01.01.2020