

CONTOPP® RETARDER 10

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PROPERTIES

PRODUCT DESCRIPTION

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

APPLICATION AREA

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

TECHNICAL DATA

CHARACTERISTICS

Colour:	brown
Form:	liquid
Density (at 20 °C):	1.10 ± 0.02 g/ml
Processing temperature:	above + 5 °C
Shelf life:	Approx. 12 months – protect from frost and direct sunlight
Supply form:	Disposable container: PE-HD-can: 20 kg total Reusable container: Container: 1100 kg total

MIXING MODEL

¹⁾ At lower w/c-ratio, the dosage must be raised accordingly.

²⁾ The dosage must be established by means of preliminary tests. These ideal retarder times can only be achieved whilst adhering to the processing information.

Screed temp.	w/c-ratio ≤ 0.55 ¹							
	Retarder times in hours							
	3	5	7	9	11	14	17	20
	Dosage CONTOPP® Retarder 10 ² In liters per 100 kg CEM I 32.5 R							
+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			

PROCESSING INFORMATION

BASIC MATERIALS

- CEM I 32.5 following BS EN 197-1
- Aggregates following BS EN 12620

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® Retarder 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.

SPECIAL ADVISES

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® Retarders for RH near to 75% (the required limit for floor finishes).
- The European standards for testing cementitious screeds recommend the CM (Carbide Bomb) testing. Typical requirements will be for a maximum of:
2.0 CM -% water for unheated systems
1.8 CM -% water for heated systems

COMPATIBILITY WITH CONTOPP® PRODUCTS

- When using CONTOPP® products, the technical values for strength, 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.

GENERAL INFORMATION

SAFETY

- Always observe general work hygiene when using our products.
- CONTOPP® Retarders are solvent-free, chloride-free and safe in terms of organic architecture.
- CONTOPP® Retarders do not deteriorate when stored properly. Therefore, stability and reactivity are not affected by storage for up to 12 months.
- Find out more information on handling CONTOPP® Retarders 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 12620: 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. Since we have no control over site conditions or construction practices, no legal liability can be derived from this technical data sheet. Upon the publication all other previous copies shall become invalid.

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