



**Technical
Data
Sheet**

CONTOPP®

Frost-Ex MO 3

Article number: 30.411

Function

- CONTOPP® Frost-Ex MO 3 leads to an acceleration of the hydration of the cement and therefore the hardening of the concrete.
- The necessary compression strength of the concrete (in excess of 5 N/mm²) for frost protection will be obtained within a short period of time.

Application area

- Used for the production of unreinforced mortar for winter application under ambient temperature between 5 to -10°C.
- For producing bonded screeds and floating screeds in accordance with BS 8204-1
- For producing screeds on underfloor heating.
- For damp or outside areas.

Data

Basic raw materials:	Nitrate
Colour:	Whitish-cloudy
Density (20 °C):	1.45 ± 0.01 g/ml
Form:	Liquid
Fresh mortar temperature:	above + 5 °C
Shelf life:	ca. 12 months – protect from frost and direct sunlight
Storage:	PE-HD-can: 24 kg netto
	Poly-drum: 240 kg netto
	Container: 1.200 kg netto

Dosage

Temperature	MO 3 per 50 kgs cement
0 to -5°C	0.40 kg
-5 to -8°C	0.80 kg
-8 to -10 °C	1.00 kg
Required amount of admixture according to requirements, base material and construction site conditions following BS 8204-1 and BS EN 13813.	

Basic material

- OPC or blends following BS EN 197.
- Aggregates following BS EN 13139.

Processing information:

- CONTOPP® Frost-Ex MO 3 should be added either simultaneously with the mixing water or last of all.
- Generally ensure sufficient mixing time.
- Do not use frozen aggregates and do not concrete frozen reinforcements and shuttering
- Fresh concrete temperature when applying the shuttering – at least + 5° C
- Protect the freshly applied concrete from any rapid loss of moisture or heat, until a compression strength of at least 5 N/mm² has been reached (initiate winter construction measures)

Health & Safety

- Subject to labelling „Xi“ irritant (R 36/37/38: Irritating to eyes, respiratory system and skin.)
- Not hazardous goods as defined by transport regulations

PROPERTIES

**TECHNICAL
DATA**

**PROCESSING
INFORMATION**

**GENERAL
INFORMATION**

- WHC 1 (self assessment) little risk of pollution
- Please refer to the safety data sheet

Compatibility with CONTOPP® products

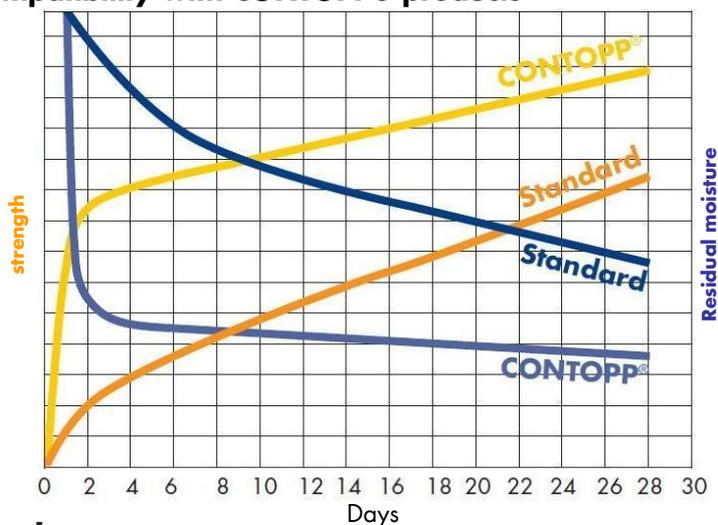


Figure 1

- By combining CONTOPP® Frost-Ex MO3 with other products of the CONTOPP® range, properties like drying course, strength and processing are positively influenced (fig. 1).

Standards and testing regulations

- BS 8204: In-situ floorings – bases and screeds
- BS 8000: Code of practice for cement/sand floor screeds and concrete floor toppings
- BS EN 13813: Screed material and floor screeds
- 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 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. Upon the publication all other previous copies shall become invalid.

Stand 01.01.20

