

OVERVIEW

FROST-EX MO3 is a technologically advanced screed hardening additive that can be used at sub-zero temperatures.

FROST-EX MO3 can be used with a bonded, unbonded or floating floor construction.

FUNCTION

- FROST-EX MO3 accelerates the hydration of the cement and therefore the hardening of the screed.
- 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

- Used to produce an unreinforced mortar for winter application under ambient temperatures between +5 to -10°C.
- For producing bonded screeds and floating screeds in accordance with BS 8204.
- For producing screeds on underfloor heating.
- For damp or external areas.

TECHNICAL DATA

Basic raw materials	Nitrate
Colour	Cloudy-White
Form	Liquid
Fresh mortar temp	above +5°C
Shelf Life	Circa. 12 months - protect from frost and direct sunlight
Supply Form	35kg container

DOSAGE

Temperature	Amount of additive per 50kg cement
0 to -5°C	0.40kg
-5 to -8°C	0.80kg
-8 to -10°C	1.00kg

BASIC MATERIALS

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

USAGE

- FROST-EX MO3 should be added either simultaneously with the mixing water or as the final component in the mix.
- Ensure that the additive is mixed thoroughly.
- Do not use frozen aggregates. Do not concrete frozen reinforcements and shuttering.
- Always ensure that the fresh concrete temperature when applying the shuttering is 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 (adhering to winter construction measures).

HEALTH & SAFETY

- Always observe general work hygiene when using our products.
- Subject to labelling Xi⁺ Irritant (R 36/37/38: Irritating to eyes, respiratory system and skin).
- Please refer to COSHH data sheet for further health and safety information.

STANDARDS & TESTING

- BS 8204: In-situ floorings – bases and screeds
- BS 8000: Code of practice for cement/s, 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

IMPORTANT

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 application procedure must be tested for suitability for the expected construction site conditions. Screed quality is essentially influenced by the quality of sand and cement, the mixing rates and the processing of all components, in accordance with approved screeding technology.

Upon the publication all other previous copies of this data sheet shall become invalid.

Updated: 16/05/2019

SETTING NEW LEVELS

The Screed Development Centre
Unit 1 Power Park, Commercial Road
Goldthorpe Industrial Estate
Rotherham, S63 9BL

Full installation guide can be found on our website:

WWW.TEKCEM.CO.UK

WWW.TEKFLOOR.CO.UK

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