

PRODUCT DATA SHEET

SikaMix Frostproofer & Plasticiser

Admixture for frostproofing and plasticising in sub-zero temperatures

PRODUCT DESCRIPTION

Sika® Frostproofer and Plasticiser is an air entraining chloride free liquid admixture for mortar which also acts as an accelerator for work in sub-zero temperatures. Improves workability and freeze/thaw resistance in brick laying mortars and eliminates the need for a separate frostproofer.

USES

To accelerate the setting times and act as an air entraining, water reducing admixture. Suitable for:

- Render (internal and external).
- Loadbearing brickwork.
- Block laying.
- Pointing/repointing brickwork.
- Floor screeds.

CHARACTERISTICS / ADVANTAGES

- Accelerating and plasticising.
- Increased frost resistance during setting.
- Non-corrosive to embedded metal.
- Eases tamping down and alignment.
- Improves workability/trowelability even in cold weather.
- Provides resistance to freeze/thaw cycling down to - 8 °C in both wet and dry mortar.
- Reduces bleeding/segregation.
- Replaces lime in mix, hence reduces possibility of lime bloom and efflorescence.
- Reduces shrinkage and cracking.
- Faster finishing times even in cold weather.

APPROVALS / STANDARDS

BS EN 934-3:2009 - Air entraining/plasticising mixture.

PRODUCT INFORMATION

Packaging	5 L Jerry can
Appearance / Colour	Amber clear liquid
Shelf Life	24 months from date of manufacture when stored in original containers and according to manufacturer's instructions.
Storage Conditions	Store between +5 °C and +25 °C. Will reconstitute after freezing.
Density	1.08 - 1.14 g/cm ³
pH-Value	8.5 - 10.5
Total Chloride Ion Content	<0.1 % w/w
Concrete Mix Design	<p>The following are examples of modified mix designs:</p> <p><u>Example 1:</u></p> <p>1 : 0.25 : 3</p> <p>Cement : Lime : Sand</p> <p><i>Instead use</i></p> <p>1 : 3 : + Sika® Frostproofer and Plasticiser</p>

Cement : Sand

Example 2:

1 : 1 : 6

Cement : Lime : Sand

Instead use

1 : 6 : + Sika® Frostproofer and Plasticiser

Cement : Sand

BRICKLAYING/POINTING: Use a mix design appropriate to brick strength (1 : 3 to 1 : 6).

INTERNAL RENDERS: 1 : 6 + Sika® Frostproofer and Plasticiser

EXTERNAL RENDERS: 1 : 3 + Sika® Frostproofer and Plasticiser

Compressive Strength

Test mix > 70 % of control.

Recommended Dosage

Ambient temperatures down to -4 °C: 1.25 L per 25 kg cement.

Ambient temperatures below -8 °C: 2.5 L per 25 kg cement.

VALUE BASE

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LIMITATIONS

- Screeds must be covered after placing until the minimum strength is obtained or until the temperature rises above freezing.
- Do not use weak mixes during cold weather.
- Do not overdose.
- Do not use with high alumina cement.
- Do not mix with other additives in same gauging water.
- Do not use with structural concrete - product is air entraining.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

- All materials used must be free from ice, and the temperature of the mix prior to placing should not be less than +4 °C.
- Screeds must be covered after placing until the minimum strength is obtained or until the temperature rises above freezing.
- Do not use weak mixes during cold weather.

APPLICATION METHOD / TOOLS

- In all cases, add to mix at an addition rate of 1.25 to 2.5 L per 25 kg cement depending on the degree of plasticising/acceleration required.
- Remember to reduce required quantity of water accordingly.
- Alternatively, add to mixing drum at same time as water.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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