

## PRODUCT DATA SHEET

# SikaMix® Frostproofer and Hardener

Chloride free liquid admixture for accelerated setting and hardening time of concrete and mortar.

## PRODUCT DESCRIPTION

SikaMix® Frostproofer and Hardener is a chloride free admixture formulated to accelerate setting and hardening times of mortar, concrete, screeds and rendering. It provides frost protection during the setting period even in sub-zero temperatures down to -8 °C. It can also be used in normal temperatures where a rapid set is required and as a plugging admixture. SikaMix® Frostproofer and Hardener is non-corrosive to metals so may be used with brick ties.

## USES

- Mortars.
- Floor screeds.
- External/Internal cement based rendering.
- Concrete (not structural).
- Emergency repair plugging aid when mixed neat with cement.

## CHARACTERISTICS / ADVANTAGES

- Reduces setting time.
- Faster finishing times even in cold weather.
- Provides frost protection down to -8 °C in wet mortar.
- Chloride free non-corrosive formula.
- Optimises mould usage.

## APPROVALS / STANDARDS

Certified to BS EN 934-2 + A1 : (2012)

## PRODUCT INFORMATION

Packaging	5 L Jerry Can
Appearance / Colour	Clear liquid
Shelf Life	36 months from date of manufacture in original unopened containers.
Storage Conditions	Store in dry conditions away from direct sunlight between +5 °C and +40 °C. Protect from frost.
Density	Approx. 1.2 g/cm <sup>3</sup>
pH-Value	9 - 11
Total Chloride Ion Content	<0.1 % w/w
Compressive Strength	>120 % of control at 20 °C after 24 hours. >130 % of control at 5 °C after 48 hours.
Recommended Dosage	Ambient temperatures down to -4 °C : 2.5 L per 50 kg cement. Ambient temperatures down to -8 °C : 5 L per 50 kg cement.

## Setting time

The following is an indication of setting times at +20 °C (use as a guide only).

Use	Mix Design Cement:Sand:Aggregate	Addition Rate / 50 kg Cement	Setting Time (Approx.)
Plugging Aid	Neat Fresh OPC		2 - 3 minutes
Concrete	1 : 2 : 4	2.5 L	7 hours
		5 L	2.5 hours
Floor Screeds	1 : 3 : 0	2.5 L	6 hours
		5 L	2 hours

## 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

- Do not overdose.
- Do not use weak mixes during cold weather.
- Do not mix with other additives in same gauging water.
- Do not use with high alumina cement.
- Do not use in structural concrete.
- Dispose of this product and packaging correctly. Do not allow to enter watercourses.

It is the user's responsibility to determine suitability for use. If in doubt, please contact Technical Services Department for further advice.

## 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 QUALITY / PRE-TREATMENT

All materials used must be free from ice and the temperature of the mix prior to placing must not be less than +4 °C.

### APPLICATION METHOD / TOOLS

#### AS AN ACCELERATOR:

Add to gauging water at an addition rate of 2.5 L to 5 L per 50 kg cement depending on the degree of acceleration required. Reduce required quantity of water accordingly.

#### AS A FROSTPROOFER:

Add to gauging water at an addition rate of use 2.5 L per 50 kg cement for protection down to -4 °C and 5 L per 50 kg cement for protection down to -8 °C. Reduce required quantity of water accordingly.

#### AS A PLUGGING AID:

Mix neat with fresh cement and place immediately. Concrete must be covered after placing until the minimum strength is obtained or until the temperature rises above freezing. Do not use with high alumina cement.

## 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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### Product Data Sheet

SikaMix® Frostproof and Hardener  
August 2025, Version 01.01  
021402021000245263

SikaMixFrostproof and Hardener-en-GB-(08-2025)-1-1.pdf