

PRODUCT DATA SHEET

Sika® Wintermix

WINTER WORKING ADMIXTURE AND FROSTPROOFER

PRODUCT DESCRIPTION

Sika® Wintermix is air entraining chloride free liquid admixture for mortar and concrete 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 frostproofers.

USES

- As an air entraining water reducing admixture and accelerator/frostproofers for brick and block laying mortar, render (internal and external) and concrete.
- Suitable for load bearing brickwork, block laying, external and internal rendering, pointing/repointing brickwork, floor screeds

CHARACTERISTICS / ADVANTAGES

- 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 (cracking and crazing reduced).
- Faster finishing times even in cold weather.

Typical Reduction in Setting Times 20-30% at 2.5Ltr/50Kg cement

APPROVALS / STANDARDS

EN 934-3:2009 Air entraining/plasticizing mixture

PRODUCT INFORMATION

Packaging	5 ltr jerry
Appearance / Colour	Amber clear liquid
Shelf Life	24 months from date of manufacture when stored according to manufacturer's instructions.
Storage Conditions	Store between 5 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

The following are examples of modified mix designs.

1: 0.25 :3 cement : lime : sand. .

use 1 : 3 cement : sand : + Sika® Wintermix

1:1:6 cement : lime : sand

use 1 : 6 cement : sand + Sika® Wintermix

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

INTERNAL RENDERS: 1 : 6 + Sika® Wintermix

EXTERNAL RENDERS: 1 : 3 + Sika® Wintermix

APPLICATION INFORMATION

Recommended Dosage

Ambient temperatures down to -4°C: 2.5Litres per 50 kg cement

Ambient temperatures below -8°C: 5Litres per 50 kg cement

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

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

Work should be carried out in accordance with the methods outlined in the Code of Practice BS5628 Part 3 for protection and use of mortars at low temperatures and DOE Advisory Leaflet No. 8. In all cases, add to mix at an addition rate of 2.5 to 5 litres per 50kg cement depending on the degree of plasticising/acceleration required. Note: remember to reduce required quantity of water accordingly. Alternatively, add to mixing drum at same time as water.

LIMITATIONS

- Concrete 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.

VALUE BASE

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

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

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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