PRODUCT DATA SHEET

Feb® Febspeed

LIQUID ACCELERATOR & HARDENER FOR MORTAR, RENDERS AND SCREEDS

PRODUCT DESCRIPTION

Feb® Febspeed is a liquid admixture formulated to accelerate the setting time of cement based mortar, non-reinforced concrete, renders and screeds. Also provides frost protection in the wet mortar during the setting period, even in sub-zero temperature and can also be used neat with cement as a plugging aid.

USES

- For use in the acceleration of screeds and paving mortars where a reduction in set time is required.
- For use as an accelerator in non reinforced concrete
- As a super rapid hardener for plugging of leaks in concrete.
- As an aid to cold weather working.

CHARACTERISTICS / ADVANTAGES

- Multi-faceted product.
- Reduces setting time.
- Increases early strength.
- Minimises waiting times on finishing operations.
- Reduces strike times in production.
- Increases productivity.
- Optimises mould usage.
- Economical in use.

APPROVALS / STANDARDS

EN 934-2: 2009 +A1 (2012)

PRODUCT INFORMATION

Chemical Base	Calcium Nitrate Solution
Packaging	5L Jerrycan
Appearance / Colour	Clear Liquid
Shelf Life	2 years when stored in accordance with manufacturer's instructions.
Storage Conditions	Protect from temperature extremes (5 - 30°C). Will freeze but can be re-constituted by stirring after thawing.
Density	1.16 - 1.22 g/cm^3
Total Chloride Ion Content	<0.1% w/w

APPLICATION INFORMATION

Recommended Dosage

Ambient temperatures down to -4° C: 2.5 litres per 50kg cement
Ambient temperatures down to -8° C: 5 litres per 50kg cement

Drying time

USE	MIX DESIGN	ADDITION RATE/ 50kg CEMENT	SETTING TIME (APPROX)
Plugging aid	Neat fresh OPC	-	2-3 mins
Concrete	1:2:4	2.5ltrs	7 hours
		5ltrs	2.5 hours
Floor screeds	1:3	2.5ltrs	6 hours
		5ltrs	2 hours

APPLICATION INSTRUCTIONS

As an Accelerator:
Pre-mix Feb® Febspeed with gauging water; check amount of water to be used in the mix, sand grading and condition. The table below gives indicative dosage rates relative to cement and water addition rates:

Mixing proportion to cement used	Concrete/ Cement/ Mortar	5 Litre Feb® Febspeed per 100kg of cement
Mixing proportion to gauging water	*Concrete	5 litres Feb® Febspeed to 40 litres mixing water
	Cement Mortar	2.5 litres Feb® Febspeed to 35 litres water
Amount of Feb® Febspeed per cubic metre of concrete/ mortar	Concrete	11.25 litres
	Cement Mortar	10 litres

*Note: Based on commonly used mixes having a fairly high slump with approximately 100 litres of mixing water used per cubic metre of concrete (the 100 litres includes the added Feb® Febspeed).
As a Floor Hardener:
Incorporate Feb® Febspeed with gauging water at a rate equivalent to 2.5 to 5 litres of Feb® Febspeed per 50 kgs of cement used. The concrete should not be gauged weaker than 1:2:4. If granolithic topping should be appropriate then a specification of 2 parts 3-6 mm clean grano (no dust) to ½ part concreting sand to 1 part cement. For selection of relevant mix designs and installation techniques refer to BS 8000 Part 9 and BS 8204 Part 2. NB: Many of the benefits to be gained from the use of Feb® Febspeed as a hardener can be negated by bad practice and placement techniques. Refer to relevant BS document for guidance on placement, curing etc.
As a Super Rapid Hardener:
Feb® Febspeed may be mixed neat with fresh ordinary Portland Cement in small quantities for use immediately as a plugging compound.

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.

EVERBUILD BUILDING PRODUCTS LTD
Site 41, Knowsthorpe Way
Cross Green Industrial Estate
Leeds, LS9 0SW
Tel: 0113 240 3456
Web: www.everbuild.co.uk
Twitter: @everbuild

SIKA LIMITED
Watchmead
Welwyn Garden City
Hertfordshire, AL7 1BQ
Tel: 01707 394444
Web: www.sika.co.uk
Twitter: @SikaLimited

SIKA IRELAND LIMITED
Ballymun Industrial Estate
Ballymun
Dublin 11, Ireland
Tel: +353 1 862 0709
Web: www.sika.ie
Twitter: @SikaIreland