

PRODUCT DATA SHEET

Sika® Set CC

SET ACCELERATING ADMIXTURE FOR CONCRETE PRODUCTS

DESCRIPTION

Sika® Set CC is an admixture that accelerates the early setting times of cement based products for the production of mortars and non – reinforced concrete with increased early strengths.

USES

- In colder temperatures or climates if earlier setting times are required to enable final finishing to take place
- In tidal situations where concrete may be subjected to damaging wave action
- Production of screeds and overlays
- Pre-cast applications of non – reinforced concrete elements

CHARACTERISTICS / ADVANTAGES

- Can be used with all types of Portland cement, including sulphate resistant cement
- Provides faster setting times
- Increases early strengths

PRODUCT INFORMATION

Packaging	30 kg / bulk
Appearance / Colour	Clear liquid
Shelf life	12 months from the date of production If stored properly in undamaged, original, sealed packaging.
Storage conditions	Store in dry conditions, protected from direct sunlight and frost at temperature between 5°C and 35°C.
Density	1.3 kg/l (at temperature 25°C)
Total Chloride Ion Content	1 litre contains approx. 0.28kg of chloride ions.

APPLICATION INFORMATION

Recommended Dosage	Temperature	Typical - per 100 kg of cement
	15°C - 20°C	1.6 litres
10°C - 15°C	3.2 litres	
5°C - 10°C	4.8 litres	

Sika® Set CC is compatible with all types of Portland Cement, including S.R.C. type and Hydraulic Cement.

APPLICATION INSTRUCTIONS

DISPENSING

- Sika® Set CC should be added directly with the mixing water at the Ready Mix Plant
- This product may be added to ready mixed concrete on arrival at the site, however a reduction in added water must be made during batching to compensate for the additional water in the admixture dosage

IMPORTANT CONSIDERATIONS

- Dosages will depend upon cement type, ambient temperatures, early age curing regimes and the particular effect desired. Tests should be conducted to determine the most effective dosage rate. A typical dosage is 1 litre per 100 kg of cement for every 5°C temperature drop.
- Where concrete with a low cement content is being supplied, higher dosages should be used.
- Merely increasing cement content of concrete will not usually provide any useful set acceleration.
- Sika® Set CC must not be diluted with water.
- As with all concrete and mortars, it is essential to protect mixes containing Sika® Set CC from water evaporation during the crucial early age curing period. We recommend the use of Antisol curing membranes for this purpose. Refer Antisol data sheet for information.
- Any stated performance criteria is based on extensive testing and historical data. However, all information relating to setting times and early age strength development should be regarded as indicative. Actual results may vary depending on conditions.
- High dosages of Sika accelerators may produce colour variations or patchiness of colour in the surface of hardened concrete.
- Do not use to produce steel reinforced concrete.
- The effect on the cement hydration is even more visible at lower water cement ratios or when cement type 3 is employed.

BASIS OF PRODUCT DATA

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.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

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 Material Safety Data Sheet 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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