

PRODUCT DATA SHEET

SikaRapid® C

Hardening Accelerator For Concrete And Mortar

DESCRIPTION

SikaRapid® C is a liquid hardening accelerator for concrete and mortar. SikaRapid® C promotes early strength development.

USES

SikaRapid® C is especially suitable for any application where fast early strength development plays a major role, or is of crucial importance within 6 to 72 hours. SikaRapid® C is used for the following applications:

- Precast concrete
- Prestressed concrete
- Ready-mixed concrete where early demoulding is essential
- Cold ambient temperatures to achieve sufficient strength gain
- Ready-mixed concrete where minimum time delays are critical

CHARACTERISTICS / ADVANTAGES

SikaRapid® C provides the following advantages through accelerated hardening of the concrete:

- When applied with a superplasticizer, SikaRapid® C will not change the fresh concrete properties produced by the superplasticizer
 - Faster turnaround of formwork in precast applications
 - Early release of stressing cables in prestressed concrete structures
 - Reduced or eliminated heat or steam curing
 - Fast construction processes and early load bearing capacity
 - Continuous concreting at low temperatures
 - No negative effects on the final strengths
- SikaRapid® C does not contain chlorides or any other ingredients which promote the corrosion of steel. It is therefore suitable for use in reinforced and prestressed concrete structures.

PRODUCT INFORMATION

Composition	Special inorganic substances in liquid form
Packaging	1000 kg IBC container
Shelf life	12 months from date of production
Storage conditions	Should be stored properly in undamaged unopened, original sealed packaging in dry conditions at temperatures between +5°C and +35°C. Protected from direct sunlight and frost. In case of long storage mix before.
Appearance and colour	Light pink color liquid
Density	1.09 - 1.25 kg/L
pH-Value	3.0 - 4.0
Total chloride ion content	Free (EN 934.01)
Concreting guidance	The standard rules of good concreting practice, concerning production as well as placing, are to be followed. Refer to relevant standards. Fresh con-

crete must be cured properly.

Recommended dosage

0.5 - 3.0% by weight of cementitious.
It is advisable to carry out trial mixes to define the exact dosage rate required.

Dispensing

SikaRapid® C is added to the gauging water or simultaneously with it poured into the concrete mixer.
It is also possible to add SikaRapid® C to the basic concrete carried in the transit mixer at the place or discharge. In this case, an additional mixing time of 30 seconds per m³ of the concrete must be observed. Prior to discharge the concrete, please check visually for uniform consistency.

Compatibility

SikaRapid® C may be combined with many other Sika Products.

- SikaPump® Start	- SikaFume®	- SikaCrete® L Slurry
- Sika® ViscoCrete®	- Sika® Antifreeze	- Sika® Aer series
- Sika® Fiberforce®	- SikaTard® 930	

Do not use SikaRapid® C in conjunction with expansion generating or shrinkage compensating admixtures or set-retarding plasticizer or superplasticizer.

Important: Always conduct trials before combining products in specific mixes and contact our Technical Services for information and advises about any specific combinations.

BASIS OF PRODUCT DATA

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

ECOLOGY, HEALTH AND SAFETY

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 exact product data and uses.

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.

