

PRODUCT DATA SHEET

SikaRapid®-2

HARDENING CONCRETE ACCELERATOR



DESCRIPTION

SikaRapid®-2 is a new technology setting and hardening accelerator for concrete and mortar. Used to increase early strengths, especially prior to 24 hours.

USES

SikaRapid®-2 is suitable for applications where fast early strength development is required:

- In Ready Mix production units
- In Precast production units
- In cases of special demands for very fast hardening
- In cases of low temperatures
- In cases of demands for very fast striking
- In cases of concrete motorway repair or construction works
- Slip form concrete

CHARACTERISTICS / ADVANTAGES

- Fast acceleration of strength developments, without negative effect to final strengths
- Furthers early green strength
- Accelerates setting in cold temperatures
- Faster resistance against frost
- Enables fast concreting and fast re-use of concrete moulds
- Increases strengths between 6 and 24 hours
- Enables fast demoulding
- Earlier loading or trafficking
- Reduces requirements for heat or steam curing
- Compatible with superplasticizers
- Does not contain chlorides and can be used without problem for prestressed and reinforced concrete

APPROVALS / CERTIFICATES

Hardening accelerating admixture (Table 7) according to EN 934.02:2009+A1:2012, Declaration of Performance 88304883, and provided with the CE-mark.

PRODUCT INFORMATION

Chemical base	Mix of alkali salts and complex compound
Packaging	IBC, 250 kg drums, 20 kg containers Bulk supply upon demand
Appearance / Colour	Liquid, fluorescence green-yellowish
Shelf life	12 months from date of production
Storage conditions	Store properly in original, undamaged, unopened, sealed packaging, in dry conditions at temperatures between +5°C and +35°C. Protect from direct sunlight and frost.
Density	~1,34 kg/l (at +20°C)
pH-Value	7.7-9.7 (at +20°C)
Total Chloride Ion Content	Free (EN 934.01)

TECHNICAL INFORMATION

Concreting Guidance

The standard rules of good concreting practice concerning production and placing shall be followed. Laboratory trials shall be carried out before hand, especially when using a new mix design or producing new concrete components. Fresh concrete shall be cured according to recognised techniques and applied as early as possible.

APPLICATION INFORMATION

Recommended Dosage

1.0–2.0 % by weight of cement

Compatibility

SikaRapid®-2 may be combined with the following Sika products:

- Sika® ViscoCrete® series (without retarding properties)
- Sika®-1+ / Sika® WT-200 P
- Sikafume® HR-E / Sikacrete® AR
- Sikacrete® UCS
- Sika® Visco I-100
- Sika-Aer® Fine
- Sika® Ferrogard-901
- Sika® Antifreeze

Trials are recommended before combining products.

APPLICATION INSTRUCTIONS

DISPENSING

SikaRapid®-2 is added to the gauging water or added simultaneously with the gauging water into the concrete mixer.

It is also possible to add SikaRapid®-2 to the basic concrete carried in a transit mixer at the place of discharge. In this case, an additional mixing time of 1 minute per m³ of concrete must be observed. The concrete shall be checked for uniform consistency prior to discharge from a transit mixer.

IMPORTANT CONSIDERATIONS

- When using SikaRapid®-2 a suitable mix design has been taken into account and local material sources should be tested.
- SikaRapid®-2 should not be added to dry cement.
- Results may differ depending on the cement type and concrete temperature.
- Use Sika® ViscoCrete® superplasticizers for better results.
- Curing of fresh concrete is very important, especially at low temperatures.
- In case of use of SikaRapid®-2 at low temperatures, concrete may be exposed to frost if it achieves the minimum required compressive strength of 5 Mpa (DIN 1045).
- SikaRapid®-2 is not compatible with retardant or expansive admixtures, such as Intraplast® / Intracrete®.
- Before application, suitability tests must be performed and local regulations must be observed.

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 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.

Sika Hellas ABEE
15 Protomagias Str.
14568 Kryoneri
Attica-Greece
Tel.: +30 210 8160 600
Fax: +30 210 8160 606
www.sika.gr | sika@gr.sika.com



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