

## Sika® Rapid-2

### Hardening Concrete Accelerator

#### Product Description

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

#### Uses

- In Ready Mix production units at temperature range between + 5 - + 30°C
- 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

#### Characteristics / Advantages

- Fast acceleration of strength developments, without negative effect to final strengths
- Enables fast concreting
- Increases strengths between 6 and 24 hours
- Enables fast demoulding
- Does not contain chlorides and can be used without problem at prestressed and reinforced environment
- Compatible with superplasticizers Sikament® / Sika® Viscocrete®, without effecting negatively the properties of the superplasticizer

#### Tests

**Approval / Standards** Conforms to the requirements of EN 934-2 T.7 (Hardening accelerating admixture).

#### Product Data

##### Form

**Appearance / Colours** Liquid, yellow-green

**Packaging** 1250 kg tanks, 250 kg drums and in plastic containers

##### Storage

**Storage Conditions / Shelf Life** 12 months from date of production if stored properly in undamaged unopened, original sealed packaging, in dry conditions at temperatures between +5°C and +35°C. Protect from direct sunlight and frost.

#### Technical Data

**Chemical Base** Alkali salts and compounds

**Density** 1,33 - 1,39 kg/lit (at +20°C)



<b>pH Value</b>	7,2 – 9,2 (at +20 <sup>0</sup> C)	
<b>Total Chloride Ion Content</b>	Free	(EN 934-2)
<b>Effect on Setting</b>	Accelerating	

## System Information

### Application Details

<b>Consumption / Dosage</b>	1 - 2% by weight of cement
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### Application Conditions / Limitations

<b>Compatibility</b>	<p>Sika<sup>®</sup> Rapid-2 may be combined with the following Sika products:</p> <ul style="list-style-type: none"> <li>- Sikament<sup>®</sup> series</li> <li>- Sika<sup>®</sup> Viscocrete<sup>®</sup> series</li> <li>- Sikafume<sup>®</sup> -HR / Sikacrete<sup>®</sup> AR</li> <li>- Sikacrete<sup>®</sup> UCS</li> <li>- Sika<sup>®</sup> Aer</li> <li>- Sika<sup>®</sup> Ferrogard-901</li> <li>- Sika<sup>®</sup> Antifreeze 1%</li> </ul> <p>Trials are recommended before combining products.</p>
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### Application Instructions

<b>Dispensing</b>	Sika <sup>®</sup> Rapid-2 is added to the gauging water at the plant or added on-site into the concrete mixer. Additional mixing time must be at least 1min / m <sup>3</sup> .
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<b>Application Method / Tools</b>	The standard rules of good concreting practice, concerning production as well as placing, are to be followed. Refer to relevant standards. Fresh concrete must be cured properly.
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<b>Notes on Application / Limitations</b>	<p>When using Sika<sup>®</sup> Rapid-2 a suitable mix design has been taken into account and local material sources should be tested.</p> <p>Sika<sup>®</sup> Rapid-2 should not be added to dry cement.</p> <p>Sika<sup>®</sup> Rapid-2 should be added with the mixing water or introduced at the end of the mixing process. Additional mixing time is at least 1min / m<sup>3</sup>.</p> <p>Results are bound to differ depending on the cement type and concrete temperature.</p> <p>Due to the fact that Sika<sup>®</sup> Rapid-2 is also setting accelerator, fast slump loss is possible after addition its introduction to the mix. Use Sikament<sup>®</sup> or Sika<sup>®</sup> Viscocrete<sup>®</sup> superplasticizers.</p> <p>Curing of fresh concrete is very important, especially at low temperatures. In case of frost, the minimum temperature should not be below +5<sup>0</sup>C. In such a case use appropriate measures, so as to achieve the least compressive strengths for frost resistance (10 N/mm<sup>2</sup>).</p> <p>Sika<sup>®</sup> Rapid-2 is not compatible with retardant or tumefactive admixtures, such as Intraplast<sup>®</sup> / Intracrete<sup>®</sup>.</p> <p>Before application, suitability tests must be performed.</p>
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<b>Value Base</b>	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.
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<b>Local Restrictions</b>	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.
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## Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users should 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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0365-CPD-062

EN-934-2

### SIKA® RAPID 2

Concrete Admixture  
Hardening accelerating admixture  
EN-934-2: T7

Maximum chloride content: chloride free

Maximum alkali content: < 2,5 % by mass

Corrosion behaviour<sup>1)</sup> : --

Dangerous substances: non

<sup>1)</sup> Only required when placed on the market in a member state, which regulates these items.



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