

# PRODUCT DATA SHEET

## SikaRapid®-2

### SET ACCELERATING ADMIXTURE

#### PRODUCT DESCRIPTION

SikaRapid®-2 is a low alkali liquid set accelerator for concrete and mortar.

SikaRapid®-2 promotes early strength development without negatively influencing final strengths.

#### USES

SikaRapid®-2 is especially suitable for any application where fast early set and strength development plays a major role, or is of crucial importance within 6 to 24 hours.

SikaRapid®-2 is mainly used for the following applications:

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

#### CHARACTERISTICS / ADVANTAGES

SikaRapid®-2 provides the following advantages through accelerated set and hardening of the concrete:

- When applied with a HRWR/Superplasticiser, SikaRapid®-2 will not change the fresh concrete properties
- Faster turnaround of formwork in precast applications
- Reduced or eliminated heat or steam curing
- Continuous concreting at low temperatures
- No negative effects on the final strengths
- SikaRapid®-2 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.

#### APPROVALS / STANDARDS

Conforms to the requirements of BS EN 934-2 Table 6 DoP 02 14 02 02 100 0 000005 1088, certified by Factory Production Control Body 0086, Certificate 541325, and provided with the CE mark

#### PRODUCT INFORMATION

<b>Chemical Base</b>	Mixture of organic and inorganic complex agents
<b>Packaging</b>	25 litre drum, 200 litre drum, 1000 litre IBC
<b>Appearance / Colour</b>	Clear yellow liquid
<b>Shelf Life</b>	12 months in original unopened containers
<b>Storage Conditions</b>	Stored in cool dry conditions between 5 °C and 25 °C protected from direct sun light and freezing
<b>Density</b>	1.37 kg/l
<b>pH-Value</b>	8.5 +/- 1.0
<b>Total Chloride Ion Content</b>	<0.1%
<b>Equivalent Sodium Oxide</b>	<2.0%

## TECHNICAL INFORMATION

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### 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.

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## SYSTEM INFORMATION

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### Compatibility

SikaRapid®-2 may be combined with many other Sika products. Important: Always conduct trials before combining products in specific mixes and contact our Technical Service Department for information and advice about any specific combinations.

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## APPLICATION INFORMATION

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### Recommended Dosage

0.5 – 3.0% by weight of cement

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### Restrictions

SikaRapid®-2 shall not be added to dry cement

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## 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 m<sup>3</sup> of concrete must be observed. The concrete shall be checked for uniform consistency prior to discharge from a transit mixer.

### 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

Local safety regulations must be observed and it advisable to wear PPI when working with this product with particular attention paid to cutting and handling. Transportation Class: The product is not classified as hazardous good for transport. Disposal: The material is recyclable. Disposal must be according to local regulations. Please contact your local Sika sales organisation for more information.

### 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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