



Sika® Rapid 1

Hardening Accelerator

Technical Data Sheet

DESCRIPTION

Sika Rapid 1 is a new generation hardening accelerator for concrete and mortar. It increases the early strengths of concrete without negatively influencing the final strength.

Complies with EN 934 Part 2 Table 7 - Hardening Accelerating Admixtures.

USES

- * **Sika Rapid 1** is used to achieve high early strengths at 6-24 hours. It is used in conjunction with a powerful water reducing admixture from the **Sikament** range.
- * **Sika Rapid 1** does not contain any chlorides and can, therefore, be used without any reservations for reinforced concrete.

ADVANTAGES

Sika Rapid 1 substantially increases early strengths and provides the following benefits:

- * **TIME** - with **Sika Rapid 1** fast track production deadlines can be met with confidence
- * **ENERGY** - **Sika Rapid 1** can reduce the requirement for external heating thus reducing energy costs
- * **MONEY** - by reducing production time and labour overtime **Sika Rapid 1** increases productivity thus saving money.

Technical Data

Form:	Liquid
Colour:	Pink
Relative Density @ 20°C:	1.180
Dry Material Content %:	35.0
pH Value:	9.0
Water Soluble Chloride Content %:	<0.1 Chloride free
Alkali Content %: (as Na ₂ O equivalent)	<10.0

Above data provided as manufacturers stated values in accordance with EN 934-2 General Requirements.

CONCRETE PLACING

Sika Rapid 1 along with the **Sikament Super Plasticiser** can be added at the batching plant, or alternatively the **Sikament Super Plasticiser** can be added at the batching plant and the **Sika Rapid 1** at site.

CONCRETE PRACTICE

It is important that the temperature of the concrete is at least 23°C prior to placement. The use of hot water or steam may be appropriate.

CONCRETE CURING

To ensure maximum strength gain the use of insulated forms coupled with thermal blankets may be appropriate.

CONCRETE MONITORING

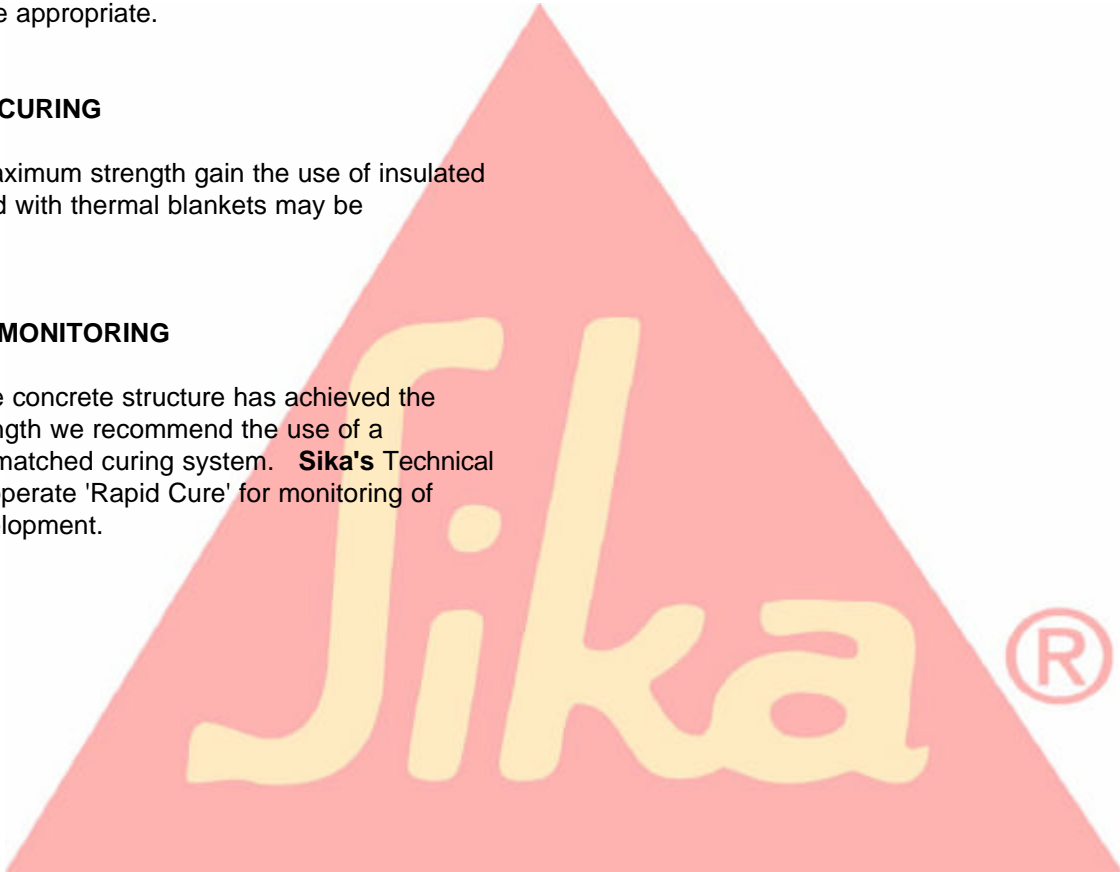
To ensure the concrete structure has achieved the required strength we recommend the use of a temperature matched curing system. **Sika's** Technical Department operate 'Rapid Cure' for monitoring of strength development.

PACKAGING

Sika Rapid 1 is supplied in 200 litre containers. Bulk deliveries can be arranged.

STORAGE AND SHELF LIFE

Sika Rapid 1 should be stored in sealed containers between 5°C and 30°C and protected from frost. Under these conditions the shelf life is 1 year minimum.



Handling Precautions

Sika products are generally harmless provided that certain precautions normally taken when handling chemicals are observed. The materials must not, for instance, be allowed to come in contact with foodstuffs or food utensils and measures should also be taken to prevent the uncured materials from coming in contact with the skin, since people with particularly sensitive skin may be affected. The use of protective clothing, goggles, barrier creams and rubber gloves is required. The skin should be thoroughly cleaned at the end of each working period either by washing with soap and warm water or by using a resin-removing cream - the use of powerful solvents is to be avoided. Disposable paper towels - not cloth towels - should be used to dry the skin. Adequate ventilation of the working area is recommended. In case of accidental eye or mouth contact, flush with water - consult a doctor immediately. Health and Safety information on Sika Products is available and we strongly advise that this is read prior to their use. Sika products are for professional use and should be stored in sealed containers away from the reach of children.

Important Note

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 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 proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.

Please consult our Technical Sales Department for further information

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