

PRODUCT DATA SHEET

SikaRapid®-1 (NZ)

HARDENING AND SET ACCELERATING CONCRETE ADMIXTURE

DESCRIPTION

SikaRapid®-1 (NZ) is a new generation hardening and setting accelerator for concrete. It promotes early strength development of concrete without negatively influencing the final strength.

USES

SikaRapid®-1 (NZ) is especially suitable for any application where fast early strength development plays a major role, or is of crucial importance within 6 to 24 hours. SikaRapid®-1 (NZ) is used for the following applications:

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

CHARACTERISTICS / ADVANTAGES

SikaRapid®-1 (NZ) provides the following advantages through accelerated setting and hardening of the concrete:

- Faster turnaround of formwork in precast applications
- 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®-1 (NZ) does not contain chlorides or any other ingredients which promote the corrosion of steel. It is therefore suitable for use in reinforced concrete.

PRODUCT INFORMATION

Chemical Base	Mixture of organic and inorganic complexing agents
Packaging	200 litres and bulk delivery
Appearance / Colour	Violet liquid
Shelf Life	Twelve (12) months from date of production when stored as stated.
Storage Conditions	Store in unopened original containers in dry conditions between +5°C and +35°C.
Density	~ 1.40 kg/litre
pH-Value	~ 8.5

APPLICATION INFORMATION

Recommended Dosage	Depending on desired acceleration effect 1.0 - 3.0 % by weight of cement. Site trials are advisable to determine optimum dosage rates.
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Compatibility	SikaRapid®-1 (NZ) is compatible with other Sika Admixtures - but add SikaRapid®-1 (NZ) separately, do not premix.
Dispensing	SikaRapid®-1 (NZ) is either mixed with the gauging water or added simultaneously with the gauging water into the concrete mixer. It is also possible to add SikaRapid®-1 (NZ) to the basic concrete carried in the transit mixer at the place of discharge. In this case, an additional mixing time of 1 minute per m ³ of concrete must be observed. Prior to its discharge, the concrete is to be checked visually for uniform consistency.
Restrictions	<ul style="list-style-type: none"> ▪ In case of danger of frost, winter precautions must be implemented and maintained until the concrete has developed a compressive strength of at least 10 MPa (freeze-resistance). ▪ Frozen SikaRapid®-1 (NZ) may be used after being thawed slowly at room temperatures and intensive stirring. ▪ SikaRapid®-1 (NZ) may be used with any non-retarded Sika plasticiser or superplasticiser. Preliminary tests must be carried out in combination with such products

APPLICATION INSTRUCTIONS

DISPENSING

The standard rules of good concrete production and placing must also be observed when SikaRapid®-1 (NZ) is being used. Optimal curing of the fresh concrete is imperative, especially at low temperatures.

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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