

PRODUCT DATA SHEET

SikaRapid[®]-2

Set Accelerating Admixture for Concrete

PRODUCT DESCRIPTION

SikaRapid[®]-2 is a low alkali, chloride free liquid set accelerator for concrete and mortar which 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. Typical applications include:

- Precast concrete
- Prestressed concrete
- Making concrete in cold ambient temperatures
- Speeding up construction schedule

CHARACTERISTICS / ADVANTAGES

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.

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

- When applied with a HRWR/Superplasticiser, SikaRapid[®]-2 will have minimal effect on 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

APPROVALS / STANDARDS

Conforms to the requirements of BS EN 934-2 Table 6 DoP 93209815 certified by Factory Production Control Body 1029 and provided with the CE Mark
DoC 10690286 certified by Factory Production Control Body 0120 and provided with the UKCA Mark

PRODUCT INFORMATION

Chemical Base	Mixture of organic and inorganic complex agents
Packaging	25 L drum, 200 L drum and 1000 L IBC
Shelf Life	12 months in original unopened containers
Storage Conditions	Stored in cool dry conditions between 5 °C and 25 °C protected from direct sun light and freezing
Appearance / Colour	Clear yellow liquid
Density	1.37 kg/L
Total Chloride Ion Content	<0.1 % w/w (chloride free)
Equivalent Sodium Oxide	<2.0 % w/w (alkali free)

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.

SYSTEM INFORMATION

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.

APPLICATION INFORMATION

Recommended Dosage

0.5–3.0 % by weight of cement

VALUE BASE

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.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

DISPENSING

SikaRapid®-2 is added to the guaging water or added simultaneously with the guaging 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.

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.

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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SikaRapid®-2
July 2022, Version 01.02
021402021000000005

SikaRapid-2-en-GB-(07-2022)-1-2.pdf