

PRODUCT DATA SHEET

SikaRapid®-4 UK

Hardening accelerator for concrete

PRODUCT DESCRIPTION

SikaRapid®-4 UK is a chloride-free hardening accelerator for mortar and concrete. It accelerates the hardening of the concrete and the development of the early-age strength without negatively influencing final strength, especially in concrete with high levels of cement replacement materials.

USES

SikaRapid®-4 UK is especially suitable for any application where fast early strength development before 24 hours is required. Typical applications include:

- Precast concrete
- Prestressed concrete
- Making concrete in cold ambient temperatures
- Speeding up construction schedule
- Concrete with high levels of cement replacement / supplementary cementitious material (SCM)

CHARACTERISTICS / ADVANTAGES

- Improve early strength development of concrete, especially with high levels of SCM
- Chloride-free and suitable for use in reinforced and prestressed concrete
- Faster turnaround of formwork
- 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 7 DoP 32253940, certified by Factory Production Control Body 1164 and provided with the CE mark

PRODUCT INFORMATION

Packaging	20 L drum and 1000 L IBC
Appearance / Colour	Straw coloured liquid
Shelf Life	12 months from date of production if stored properly in undamaged, unopened, original packaging.
Storage Conditions	Store at temperatures between 5 °C and 30 °C. Protect from direct sunlight, frost and contamination.
Total Chloride Ion Content	<0.1 % w/w (chloride free)
Equivalent Sodium Oxide	<1.2 % w/w (alkali content)
Specific gravity	1.39 kg/L

TECHNICAL INFORMATION

Concreting guidance

The standard rules of good concreting practice, concerning production and placing, are to be followed. Laboratory trials shall be carried out before concreting on site, especially when using a new mix design or producing new concrete components. Fresh concrete must be cured properly with curing applied as early as possible.

APPLICATION INFORMATION

Recommended Dosage

1.0-5.0% by weight of cement
Dosages outside this range should be verified by trials

Dispensing

SikaRapid®-4 UK is added to the gauging water or added with it into the concrete mixer. SikaRapid®-4 UK may also be added into the ready-mix truck on site. When added on site the truck mixer shall rotate its drums at maximum speed for at least 1 minute per m³ concrete and a minimum of 5 minutes to achieve a uniform mix.

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

REGULATION (EC) NO 1907/2006 - REACH

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.

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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