

PRODUCT DATA SHEET

SikaRapid[®]-220

Set accelerating admixtures (SBE)

DESCRIPTION

SikaRapid[®]-220 is a set accelerating admixtures that meets the requirements for a concrete admixture of impact group SBE according to BS EN 934-2. SikaRapid[®]-220 is developed for the applications where very high early strength is required. Suitable for use in hot and tropical climatic conditions.

USES

Particularly suitable for applications where fast early strength development plays a major role or is of critical importance within the first hours.

Used mainly for the following applications:

- Prefabrication
- Ready-mix concrete where early stripping of formwork is required
- Slipforms

FEATURES

Provides the following benefits by accelerating concrete curing:

- Shorter formwork cycles in prefabrication
- Reduces or eliminates heat or steam curing
- Fast construction processes and early bearing capacity
- No negative effects on final strengths
- Contains no chlorides or other substances that promote steel corrosion
- Harmless to reinforced and post tensioned concrete structures with the exception of pretensioned concrete

SUSTAINABILITY

IBU Environmental Product Declaration (EPD)

CERTIFICATES AND TEST REPORTS

CE Marking and Declaration of Performance to BS EN 934-2: Set accelerating admixtures for concrete (SBE)

PRODUCT INFORMATION

Composition	Mixture of inorganic complexing agents
Packaging	Disposable container (drum): 250 kg Plastic interchangeable containers: 1000 kg
Appearance and colour	Clear to yellow
Shelf life	In unopened original container: 36 months from production date

Storage conditions	Storage temperature between +5 °C and +30 °C. Protect from direct sunlight and frost. For storage use clean tanks. These should be cleaned and disinfected at least once a year. Frozen SikaRapid®-220 can be reused after slow thawing at room temperature and after intensive mixing. Suitability tests should be performed before use.
Density	~ 1.3 kg/l (+23 °C)
pH-Value	~ 6.0
Conventional dry material content	~ 45.0 % by weight
Total chloride ion content	≤ 0.10 % by weight

TECHNICAL INFORMATION

Concreting guidance	The standard rules of good concreting practice for production and placing must be observed when using SikaRapid®-220 in concrete. Refer to relevant standards. Fresh concrete must be cured properly especially at high temperatures in order to prevent plastic and drying shrinkage. Use Sika® Antisol® products as a curing agent or apply wet hessian.
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APPLICATION INFORMATION

Recommended dosage	The normally recommended dosage rate of SikaRapid®-220 is 1.0 to 2.0 % of the total binder, however site trials should be conducted to determine the optimum dosage required.
Compatibility	SikaRapid®-220 can be usefully combined with all Sika® concrete plasticizers and superplasticizers without retarding component. Preliminary tests are advisable in combination with these products. SikaRapid®-220 must not be used simultaneously with expansion-promoting or shrinkage-compensating admixtures. We recommend to preform trial mixes to establish the required performance when combining SikaRapid®-220 with other admixtures. Please consult our Sika Technical Department for specific technical recommendations.
Dispensing	SikaRapid®-220 is added to the mixing water or simultaneously with it to the mixer. However, it can also be added to the premixed concrete in the truck mixer on site. In this case, the post-mixing time of at least 1 minute per m ³ must be observed. The concrete must then be visually checked for uniform consistency before unloading.

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

IMPORTANT CONSIDERATIONS

It is not recommended to use SikaRapid®-220 in pre-tensioned concrete constructions.

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.

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 exact product data and uses.

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.

Sika Gulf B.S.C. (c)

Tel: +973 177 38188
Email: info@bh.sika.com
Sika Kuwait Cons. Mat. & Paints Co WLL
Tel: +965 22 282 296
Email: sika.kuwait@kw.sika.com
Web: gcc.sika.com

Sika UAE LLC

Sika UAE LLC (Branch)
Sika International Chemicals LLC
Tel: +971 4 439 8200
Email: info@ae.sika.com
Web: gcc.sika.com

Sika Saudi Arabia Limited

Riyadh / Jeddah / Dammam / Rabigh
Tel: +966 9200 22167
Email: info@sa.sika.com
Web: gcc.sika.com

Sika MB LLC

Oman
Tel: +968 22 826 500
Email: info@om.sika.com
Web: gcc.sika.com



ISO 9001, 14001, 45001 – SGS:
- Sika UAE LLC
- Sika International Chemicals LLC
- Sika Gulf B.S.C. (c)
ISO 9001, 14001 – SGS:
- Sika Saudi Arabia Limited
ISO 9001, 14001 – TÜV:
- Sika UAE LLC (Branch)
ISO 9001 – SGS:
- Sika MB LLC

All products are supplied under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and ISO 45001.



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