

PRODUCT DATA SHEET

SikaRapid[®]-2 AE

Setting accelerator for concrete and mortars

DESCRIPTION

SikaRapid[®]-2 AE is a liquid admixture to promote early setting and strength development without influencing the final strength.

USES

SikaRapid[®]-2 AE is suitable for applications where fast early setting and early strength development is required:

- Precast concrete
- Ready-mix concrete
- Insitu mixed concrete or mortars
- Slip form concrete

CHARACTERISTICS / ADVANTAGES

- Compatible with superplasticisers
- Increases strength between 6–24 hours
- Furthers early green strength
- Accelerates setting in cold temperatures
- Faster resistance to frost
- Earlier demoulding of formwork
- Earlier removal of curing membranes
- Earlier loading or trafficking
- Reduces requirements for heat or steam curing
- No negative effect on final strength
- Does not contain chlorides
- Suitable for steel reinforced concrete

APPROVALS / CERTIFICATES

Conforms to the requirements of EN 934-2 table 6

PRODUCT INFORMATION

Composition	Mixture of organic and inorganic complex agents
Packaging	25 Litre, 200 Litre drum, 1000 Litre IBC.
Appearance / Colour	Clear yellow liquid
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
Density	~1,30 kg/l
pH-Value	~8,4
Total chloride ion content	< 0,1 M-%

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.

APPLICATION INFORMATION

Recommended dosage

1.0–2.0 % by weight of cement
Higher dosages by weight of binder can be used depending on the mix n, raw materials, climatic conditions and concrete requirements.
Trial mixes must be performed to establish the exact dosage rate required.

Dispensing

SikaRapid®-2 AE 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 AE 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.

Restrictions

When using SikaRapid®-2 AE a mix design must be selected for the local material sources used and trial mixes performed to verify suitability. If frozen and/or if precipitation has occurred, it may only be used after thawing slowly at room temperature and intensive mixing. SikaRapid®-2 AE should not be added to dry cement. Before pouring, suitability tests on the fresh concrete must be carried out. Due to the extended workability take special care that formwork is properly installed and secured. In case the setting time of concrete is extended, if cured properly, other properties may not be affected and higher ultimate strength is visualized.
SikaRapid®-2 AE products are not compatible with admixtures based on sulfonated naphthalene or melamine.
When accidental overdosage occurs bleeding and segregation of the concrete and retardation of initial set will be observed.

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.

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 NORTHERN GULF

Bahrain / Qatar / Kuwait
Tel: +973 177 38188
sika.gulf@bh.sika.com
gcc.sika.com

SIKA SOUTHERN GULF

UAE / Oman / SIC
Tel: +971 4 439 8200
info@ae.sika.com
gcc.sika.com

SIKA SAUDI ARABIA

Riyadh / Jeddah / Dammam
Tel: +966 11 217 6532
info@sa.sika.com
gcc.sika.com



ISO 9001: Sika UAE LLC,
Sika Gulf B.S.C. (c),
Sika Saudi Arabia Co. Ltd,
Sika Qatar LLC
ISO 14001: Sika UAE LLC,
Sika Gulf B.S.C. (c),
Sika Saudi Arabia Co. Ltd
OHSAS: Sika UAE LLC,
Sika Gulf B.S.C. (c)

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 OHSAS
18001.

Product Data Sheet

SikaRapid®-2 AE

January 2021, Version 01.01
021402021000000161