

# PRODUCT DATA SHEET

## SikaRapid<sup>®</sup>-910 HX

### HARDENING ACCELERATOR

#### DESCRIPTION

SikaRapid<sup>®</sup>-910 HX is a liquid hardening accelerator for concrete and mortar. SikaRapid<sup>®</sup>-910 HX promotes early strength development while positively influencing final strengths.

#### USES

- Reinforced and prestressed concrete structures
  - Precast concrete
  - Ready-mixed concrete where early demoulding is essential and/or minimum time delays are critical
  - Slip-formed concrete
  - Concrete mixes containing blended cements
- SikaRapid<sup>®</sup>-910 HX is especially suitable for any application where fast early strength development plays a major role, or is of crucial importance within the first hours.

#### CHARACTERISTICS / ADVANTAGES

SikaRapid<sup>®</sup>-910 HX provides the following advantages through accelerated hardening of the concrete within 4 to 18 hours depending on concrete mix design, fresh concrete temperature and curing conditions:

- Faster turnaround of formwork in precast applications
- Reduced or eliminated heat or steam curing
- Fast construction processes and early load bearing capacity
- No negative effects on slump retention and on final strengths
- Ensured early strength development of concrete mixes produced with blended cements
- Utilization of optimized binder paste volume leading to increased durability

SikaRapid<sup>®</sup>-910 HX 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.

#### PRODUCT INFORMATION

Chemical Base	Calcium silicate hydrate
Packaging	Bulk delivery
Appearance / Colour	White liquid
Shelf Life	6 months from date of production if stored properly in undamaged unopened, original sealed packaging.
Storage Conditions	Storage temperatures between +5°C and +45°C. Protect from direct sunlight, frost and contamination.
Density	~1.15 g/cm <sup>3</sup>
pH-Value	~11.0
Total Chloride Ion Content	≤ 0.1 %
Equivalent Sodium Oxide	≤ 7.0 % (Na <sub>2</sub> O-equiv.)

# TECHNICAL INFORMATION

## Concreting Guidance

The standard rules of good concreting practice, concerning production as well as 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 and curing applied as early as possible, especially at low temperatures.

# APPLICATION INFORMATION

## Recommended Dosage

0.1–5.0 % by weight of cement (according to the target accelerating effect)

## Compatibility

SikaRapid®-910 HX may be combined with many other Sika products. Do not use SikaRapid®-910 HX in conjunction with expansion generating or shrinkage compensating admixtures. Important: Always conduct trials before combining products in specific mixes and contact Sika technical service for information and advice about any specific combinations.

## 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.

## 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.

## APPLICATION INSTRUCTIONS

### DISPENSING

SikaRapid®-910 HX is added to the gauging water or added with it into the concrete mixer. SikaRapid®-910 HX may also be added into the ready-mix truck on site. When added on site the truck mixer shall rotate its drums at maximum revolutions for at least 1 minute per m<sup>3</sup> concrete and a minimum of 5 minutes to achieve a uniform mix. The concrete has to be visually checked for uniform consistence before discharging. SikaRapid®-910 HX shall not be added to dry cement.

## 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. 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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