



## PRODUCT DATA SHEET

# Sika® Sigunit® L-72 AF

### LIQUID ALKALI-FREE SHOTCRETE ACCELERATOR

#### PRODUCT DESCRIPTION

Sika® Sigunit® L-72 AF is a high performance, alkali-free liquid set accelerator for shotcrete applications.

#### WHERE TO USE

Sika® Sigunit® L-72 AF is suitable for both dry and wet spraying processes and it is used for:

- Support at the face while advancing tunnels and mines
- Rock and slope stabilization
- High quality lining shotcrete

#### CHARACTERISTICS / ADVANTAGES

- High early strength development
- Alkali- and chloride-free
- No pollution of groundwater by leaching of alkalis
- Distinct reduction in rebound.
- Improves bond of shotcrete to rock and concrete thus facilitating overhead spraying
- Distinct reduction of dust

#### PRODUCT INFORMATION

CSC MasterFormat®	03 05 00
Packaging	205 L (54 US gal.) drum 1040 L (275 US gal.) IBC Bulk delivery
Appearance / Colour	Liquid / Translucent to white
Shelf Life	6 months when stored in unopened original containers, protected from direct sunlight and frost and kept at temperatures between +10 °C and +30°C (50 °F and 86 °F).
Storage Conditions	Store in stainless steel or plastic container as the low pH of the admixture may cause corrosion if stored in normal steel container, which might affect the performance of the admixture. Protect from direct sunlight, heat and frost. If these conditions are unattainable, Sika® Sigunit® L-72 AF may precipitate. If this occurs, the performance of Sika® Sigunit® L-72 AF may be adversely effected. Contact your Sika Canada Technical Sales Representative.
Specific Gravity	Approx. 1.4

## APPLICATION INFORMATION

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### Recommended Dosage

#### Dosage

For general applications Sika recommends a dosage between 4-8 % by weight of the total cementitious content. Dosage rates outside the recommended range may be used where specialized materials such as microsilica are specified, extreme ambient conditions are encountered or unusual project conditions require special consideration. In this case, contact your Sika Canada Technical Sales Representative.

Remark: The most effective dosage must be determined by trial.

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### Compatibility

Sika® Sigunit® L-72 AF is compatible with Sika's water reducing, high range water reducing, hydration control admixtures and other admixtures. Trials with local materials is always recommended to verify performance.

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### Mixing

**Mixing / Dispensing:** Sika® Sigunit® L-72 AF is dosed and added on-site by a liquid dispensing system. Optimum dispersion in the shotcrete is governed by nozzle configuration and shotcreting techniques. Use of Sika® Sigunit® L-72 AF requires the technically correct installation of dosing and conveying equipment.

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### Restrictions

- Concrete temperature should not be lower than +15°C (59 °F) when shotcreting in thick layers - 100 mm (4 in) and above
  - Metal components that come into direct contact with the product should be fabricated of stainless steel. Do not use brass parts.
  - The performance of the Sika® Sigunit® L-72 AF will vary according to water/cement ratio of the mix, materials used, ambient conditions, shotcrete methods used and the requirements of a specific project.
  - The effect of Sika® Sigunit® L-72 AF depends on cement type, age, content and the nature of subgrade.
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## BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

## ENVIRONMENT, HEALTH & 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 recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. 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 or may be downloaded from our website at: [www.sika.ca](http://www.sika.ca)

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Sudbury; Toronto (Ontario)  
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