

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.

USES

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

Sika® Sigunit® L-72 AF liquid shotcrete set accelerator has the following characteristics and 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

Packaging	Sika® Sigunit® L-72 AF is available in 55 gallon drum (208 liter), 275 gallon totes (1040 liters) and bulk delivery.
Appearance / Color	Translucent to White Liquid
Shelf Life	Shelf life when stored in unopened original containers, protected from direct sunlight and frost and kept at temperatures between 50°F and 86°F (10°C-30°C) is 6 months.
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 and the regional Sika representative or technical service department at 1-800-933-7452 should be contacted.
Specific gravity	Approx. 1.42

APPLICATION INFORMATION

Recommended Dosage

The most effective dosage must be determined by trial. Dosage rates will vary according to w/c ratio, materials used, ambient conditions, shotcrete methods used and the requirements of a specific project. For general applications Sika recommends a dosage between 4-8% by weight (45-86 fl.oz/100 lbs) of the total cementitious content. The performance of the Sika® Sigunit® L-72 AF will vary according to w/c ratio of the mix. 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 please contact your local regional office or technical service department at 1-800-933-7452. The effect of Sika® Sigunit® L-72 AF depends on cement type, cement age, cement content and type of subgrade.

Mixing

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. Important information: The concrete temperature should not be lower than 59°F (15°C) when shotcreting in thick layers - 4 inches and above (100 mm and above). Use of Sika® Sigunit® L-72 AF requires the technically correct installation of dosing and conveying equipment. Metal components that come into direct contact with the product should be fabricated of stainless steel. Do not use brass parts. **Combination with other Sika admixtures:** 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.

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

OTHER RESTRICTIONS

See Legal Disclaimer.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC

at 1-800-424-9300, International 703-527-3887.

LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety

Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs.

NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.

Sale of SIKA products are subject to the Terms and Conditions of Sale which are available at <https://usa.sika.com/en/group/SikaCorp/termsandconditions.html> or by calling 1-800-933-7452.

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