

## **Sigunit® L-89 AF**

### Setting accelerating admixture for sprayed concrete

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#### **Product Description**

Sigunit® L-89 AF is a highly effective, accelerating, and liquid admixture alkali-free, particularly indicated for the application of sprayed concrete both wet and dry, characterized by very short setting times and rapid development of mechanical resistances.

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#### **Uses**

Sigunit® L-89 AF is particularly suitable for:

- Production of high quality sprayed concrete for coatings;
- Production of sprayed concrete for tunnel structural repair;
- Tunnel consolidation during excavation;
- Consolidation of rocks and slopes.

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#### **Characteristics / Advantages**

Sigunit® L-89 AF is the essential component for the production of high quality sprayed concretes, the main characteristics and advantages that distinguish its use are:

- Rapid development of mechanical strength;
- Reduction of concrete rebound;
- Improvement of the adhesiveness of the concrete sprayed on rock and concrete and facilitating spraying overhead;
- Absence of alkalis and chlorides;

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#### **Product Data**

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##### **Description**

Liquid accelerator based on inorganic salts

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##### **Shape / Colour**

Straw yellow liquid

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##### **Packaging**

Bulk tanker - 1200 kg IBC tank

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##### **Conservation**

In the original well-sealed packaging, protected from the action of sunlight and frost with temperatures between +5° and +35°C: 12 months. After prolonged storage the product performance must be tested, it is always necessary to remix the product before use.

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#### **Technical Data**

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##### **Recommended dosage**

5.0 - 8.0% on the weight of the binder

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##### **Specific weight**

1.36 ± 0.03 kg / dm<sup>3</sup> at 20°C

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##### **Dry matter content**

40,0 ± 2

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##### **Alkali content**

≤ 1.0 %

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##### **Water soluble chlorides**

≤ 0.10 % mass

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## Application Conditions

### Methods of Use

The suitability of mixtures added with Sigunit® L-89 AF must always be checked with preliminary tests. The normal size of aggregates during pumping is between 8 and 12 mm of maximum diameter. It is necessary to use suitable High Range water Reducer (HRWR) of the Viscocrete or Sikament series. The acceleration of the setting time and the development of mechanical strengths strongly depend on the water-cement ratio, on the type and age of the binder, as well as on the support temperature and the concrete temperature, which should be higher than 10 ° C. Lower concrete temperatures, require a higher dosage of accelerator. For the purpose of a correct application, it is suggested to request the support and technical advice of Sika.

Compatibility: Sigunit® L-89 AF is compatible with the super-plasticizing additives of the Viscocrete and Sikament lines, SikaTard retarders and additions like Sika Fume, Sika Visco type homogenizers. It is not compatible with alkaline accelerators.

## Security Measures

### Precautions

For information and advice on safety standards and for the use and storage of chemical products, the user must refer to the most recent Safety Data Sheet, containing physical, toxicological and other safety data.

### Ecology

Do not dispose of the product and empty containers in the environment. Consult the most recent Safety Data Sheet for further information.

### Legal Notes

The technical advice relating to employment, which we provide verbally or in writing as assistance to the customer or to the applicator based on our experiences, corresponding to the current state of scientific and practical knowledge, are not binding and do not demonstrate any contractual legal relationship or accessory obligation with the purchase contract. They do not exempt the buyer from his own responsibility to personally try our products with regard to their suitability for the intended use. For the rest our commercial conditions are valid. The contents of this form are considered binding for the above in terms of the truthfulness of the content, only if accompanied by a special stamp and counter-signature affixed to our company's headquarters and staff delegated to the above. Failure to comply with the aforementioned original content and / or use does not imply any responsibility on the part of the Sika Company. The customer is also required to verify that this sheet AND THE EVENTUALLY REPORTED VALUES that are valid for the product batch of his interest and are not exceeded as subsequent editions AND / OR NEW PRODUCT FORMULATIONS replace them. If in doubt, contact our Technical Department in advance.



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