

PRODUCT DATA SHEET

Sika® Sigunit® L-89 AF

Setting accelerating admixture for sprayed concrete

DESCRIPTION

Sika® 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.

USES

Sika® 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.

CHARACTERISTICS / ADVANTAGES

Sika® 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;

PRODUCT INFORMATION

Packaging	Bulk tanker - 1,200kg IBC tank
Shelf life	12 months from date of production if stored in undamaged and unopened, original sealed containers.
Storage conditions	In the original well-sealed packaging, protected from the action of sunlight and frost with temperatures between +5° and +35°C. After prolonged storage the product performance must be tested, it is always necessary to re-mix the product before use.
Appearance and colour	Straw yellow liquid
Density	1.36 ± 0.03 g /cm ³ at 20°C
Solid content by mass	40 ± 2
Total chloride ion content	≤ 0.1% mass

APPLICATION INFORMATION

Recommended dosage	5.0 - 8.0% on the weight of the binder
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Compatibility

The suitability of mixtures added with Sika® 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.

Sika® 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.

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

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.

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.

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PRODUCT DATA SHEET

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