

PRODUCT DATA SHEET

Sika® Sigunit® D-54 AF

ALKALI FREE POWDER ACCELERATOR SHOTCRETE ADMIXTURE

DESCRIPTION

Sika® Sigunit® D-54 AF is an alkali-free accelerator in powder form for shotcrete applications.

USES

Sika® Sigunit® D-54 AF is a set accelerator suitable mainly for dry spray applications and under certain circumstances for wet spray applications.

Sika® Sigunit® D-54 AF is mainly used in:

- Securing of rocks in tunnel and mine construction
- Rock and slope stabilisation
- High-quality shotcrete for general construction work

CHARACTERISTICS / ADVANTAGES

- Alkali-free (non-caustic) and classified as non-toxic product
- Very fast setting of shotcrete mixes
- No strength loss of the accelerated concrete is used correctly
- No additional contamination of mountain and ground water due to washed out alkalis
- Large reduction in rebound
- Improves bond of shotcrete to rock and concrete, making overhead spray easier
- Free of chlorides, no danger to steel reinforcement and steel fibres

PRODUCT INFORMATION

Packaging	20 kg bag
Appearance / Colour	White powder
Shelf Life	6 months from the date of production
Storage Conditions	Store properly in original, unopened and undamaged sealed packaging in dry conditions.
Total Chloride Ion Content	Nil

APPLICATION INFORMATION

Recommended Dosage	In general, a dosage between 2–6 % by weight of cement, depending on shotcrete process type and substrate conditions. The most effective dosage must be determined by site trials.
Compatibility	Sika® Sigunit® D-54 AF is compatible with all types of ordinary Portland Cement and standard cement replacement materials. It is also compatible with the following Sika product systems – SikaTard®, Sikament®, SikaPump® and Sika® FerroGard®. Contact Sika technical service for specific information.

APPLICATION INSTRUCTIONS

DISPENSING

Sika® Sigunit® D-54 AF is added using a powder dosage unit.

Optimum dispersion in the shotcrete is governed by nozzle configuration and shotcrete techniques.

IMPORTANT CONSIDERATIONS

The effect of Sika® Sigunit® D-54 AF depends on the cement content, age and type. It is also dependant on the temperature of the shotcrete, the application area, substrate conditions and shotcrete methods used. In the dry process, the performance of Sika® Sigunit® D-54 AF also significantly depends on the amount of water added during spraying.

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.

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.

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.

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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