

# PRODUCT DATA SHEET

## Sika® Sigunit® D-54 AF

### ALKALI FREE POWDER ACCELERATOR SHOTCRETE ADMIXTURE

#### DESCRIPTION

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

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

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

#### USES

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#### 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 if 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
- Low viscosity – less pumping problems

#### PRODUCT INFORMATION

<b>Packaging</b>	20 kg bag
<b>Appearance / Colour</b>	Powder / white
<b>Shelf life</b>	Best performance 6 months after delivery
<b>Storage conditions</b>	In a cool dry place. Protect from direct sun.
<b>Bulk Density</b>	1.25 kg/l
<b>Total Chloride Ion Content</b>	Nil

#### APPLICATION INFORMATION

<b>Recommended Dosage</b>	In general a dosage 2 - 6 % by weight of cement depending on shotcrete process type and substrate conditions. The most effective dosage must be determined by site trials.
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## 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 Sikatards, Sikaments, Sika® Pump, Sika® FerroGard.  
Please consult our technical department.

## 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 shotcreting techniques.

### IMPORTANT CONSIDERATION

The Sika® Sigunit® D-54 AF's effect depends on cement content, age and type.  
It is also dependent on the temperature of the shotcrete and the application area, and shotcrete methods used.  
In the dry spray process, the performance of Sika® Sigunit® D-54 AF 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 declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

### ECOLOGY, HEALTH AND SAFETY

**Ecology:** Do not dispose into water

**Disposal:** According to local law

**Transportation:** Non-hazardous

**Important notes:** Although classified as non-toxic, as is normed with most industrial chemicals, certain precautions should be taken when handling.

- Avoid contact with skin and eyes, wear protective gloves and eye protection
- In case of skin contact wash thoroughly
- In case of eye contact, flood with water at least 15 minutes and consult a doctor

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## 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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