

# PRODUCT DATA SHEET

## Sika® Sigunit®-D430 AF-id

### ALKALI FREE POWDER SHOTCRETE ACCELERATING ADMIXTURE

#### DESCRIPTION

Sika® Sigunit®-D430 AF-id is an alkali free accelerator in powder form for shotcrete (in dry spray process)

#### USES

Sika® Sigunit®-D430 AF-id is suitable for dry spraying processes and it is used for :

- Support at the face whilst advancing tunnels and mines
- Rock- and slope stabilization
- Concrete repair works

#### CHARACTERISTICS / ADVANTAGES

Sika® Sigunit®-D430 AF-id has the following characteristics and advantages :

- Good early strength
- Alkali-free
- Minimal strength loss of the accelerated concrete
- No pollution of groundwater by leached out alkalis
- Lower rebound during application
- Improves bond of shotcrete to rock and, making overhead spraying easier
- Chloride-free, does not attack iron and steel

#### PRODUCT INFORMATION

<b>Composition</b>	Special inorganic materials, alkali free
<b>Packaging</b>	20 kg bag
<b>Appearance / Colour</b>	Fine Powder / White
<b>Shelf life</b>	6 months from date of production if stored in original unopened, undamaged
<b>Storage conditions</b>	Sealed containers, protected from direct sunlight and frost at temperatures between +5 °C and +30 °C.
<b>Density</b>	~1.27 kg/L (bulk density)

#### APPLICATION INFORMATION

##### Recommended Dosage

The correct dosage must be determined by preliminary testing. For layer thickness of up to 15 cm in one pass, dosage is between 5 % and 8 % by weight of binder.  
Optimized mixing with the concrete mix is also essential.  
The following Sika® products are generally used for the basic shotcrete mix : SikaFume®.

## APPLICATION INSTRUCTIONS

### DISPENSING

The required quantity of Sika® Sigunit®-D430 AF-id is added to the dry sand/cement mixture before being fed into the shotcrete machine.

Sika® Sigunit®-D430 AF-id should not be premixed if dry mix contains free moisture due to premature and uncontrolled cement hydration taking place, possibly resulting in blockage of dry mix conveying pump and pipes.

### IMPORTANT CONSIDERATIONS

If thicker layers of shotcrete are to be applied, ensure that the temperature of the basic concrete is not lower than +15 °C. Lower temperatures require higher dosage of accelerator.

The accelerator's effect depends on the cement content, the age and type of cement, on the substrate and the shotcrete temperature as well as on the layer thickness and spraying process. The w/c ratio of the basic concrete mix in the wet spraying process, and the quantity of gauging water in the dry spraying process are also parameters influencing the acceleration effect of Sika® Sigunit®-D430 AF-id powder. When using sulphate resistant cements strength development can be slower.

Contact Sika Indonesia for any additional technical support required.

### 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.

### 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 the exact product data and uses.

## 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.

#### PT. Sika Indonesia Head Office and

Jl. Raya Cibinong-Bekasi Km.20  
Limusnunggal-Cileungsi  
Bogor 16820-Indonesia  
Tel. +62 21 8230025, Fax +62 21 8230026  
Web: idn.sika.com  
Email: sikacare@id.sika.com



SikaSigunit-D430AF-id-en-ID-(03-2019)-1-1.pdf

Product Data Sheet  
Sika® Sigunit®-D430 AF-id  
March 2019, Version 01.01  
021401011000000206

**BUILDING TRUST**

