

PRODUCT DATA SHEET

Sika® Sigunit® Powder AF PK

Shotcrete Accelerator

DESCRIPTION

Sika® Sigunit® Powder AF PK is a ready-to-use accelerator and waterproofing agent in powder form for addition to the dry gunite mix. The product is suitable for use in tropical and hot climatic conditions.

USES

Sika® Sigunit® Powder AF PK is suitable for dry spray gunite mortar as well as concrete mixes.

Sika® Sigunit® Powder AF PK is normally used for:

- Tunnels and galleries
- Securing rock faces
- Embankment and excavation stabilisation
- Thin section concrete shells
- Swimming-pools
- Concrete repair work
- Strengthening concrete structures

CHARACTERISTICS / ADVANTAGES

Sika® Sigunit® Powder AF PK reacts in the mix to assist the hydration process, resulting in rapid setting and greatly accelerated strength development within the first 24 hours. Other benefits include:

- Simplified overhead spraying
- Reduced rebound
- Better adhesion to areas of slight seepage

PRODUCT INFORMATION

Chemical Base	Activator of cement
Packaging	15 kg Bag
Appearance / Colour	White Powder
Shelf Life	06 months minimum from production date if stored properly in original unopened packaging.
Storage Conditions	Store in a dry area in original packing between 5°C and 35°C. Protect from direct sunlight or frost.
Density	Approximately 0.80 kg/ltr
Total Chloride Ion Content	Nil

APPLICATION INFORMATION

Recommended Dosage	Normal dosage of Sika® Sigunit® Powder AF PK is 2 -10% by weight of cement.
Dispensing	The required quantity of Sika® Sigunit® Powder AF PK is added to the dry sand/cement or dry sand/cement/gravel mix before being fed into the

shotcrete machine.

Curing

Fresh concrete must be cured properly, especially at high temperatures in order to prevent plastic and drying shrinkage. Use Sika Antisol® products as a curing agent or apply wet hessian.

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.

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FURTHER DOCUMENTS

The rate of set for gunite mixes is slowed down when spraying cold materials or when spraying onto cold substrates. Type and age of cement could also be an influencing factor, therefore it is advisable to carry out trial mixes to determine the correct dosage rate. Severe water infiltrations must be pre-sealed with Sika-4a.

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.

CLEANING OF TOOLS

Clean all equipment and tools with water immediately after use.

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.

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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