

Sigunit Powder BA

Shotcrete Accelerator

Production Description

Sigunit® Powder BA 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

Sigunit® Powder BA is suitable for dry spray gunite mortar as well as concrete mixes.

Sigunit® Powder BA 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

Advantages

Sigunit® Powder BA 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 Data

Type	Chemical activator of cement
Form	White Powder
Packaging	15 kg Bag
Storage Condition	Store in a dry area in original packing between 5°C and 35°C. Protect from direct sunlight
Shelf life	12 months minimum from production date if stored properly in original unopened packaging

Technical Data

Density	Approximately 0.70 kg/l.
Chloride content	Nil (EN 934-2)



Application Details

Dosage	Normal dosage of Sigunit® Powder BA is 2-4% by weight of cement. By increasing the dosage to 5-6% by weight of cement, setting and curing times are much reduced. When added at more than 9% reduced final strengths are to be expected.
Dispensing	The required quantity of Sigunit® Powder BA 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.
Cleaning	Clean all equipment and tools with water immediately after use.
Remarks	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.
Notes	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.
Safety	For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent Material Safety Data Sheet 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 should 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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