

SikaFume®-TU

Silica Fume Based Shotcrete Admixture

Product Description	SikaFume®-TU is a one-component shotcrete admixture in powder form, based on Sika's silica fume technology. Suitable for use in hot and tropical climatic conditions.
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Uses	SikaFume®-TU is used in dry-spray and wet-spray gunite mixes to reduce rebound and give increased strengths.
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Advantages	SikaFume®-TU contains extremely fine (0.1µm) latently reactive silicone dioxide. The presence of this substance greatly improves the internal cohesion and water receptivity of the fresh concrete. In the set concrete the latently reactive silica fume forms a chemical bond with the lime released during hydration. The additional crystal formation significantly improves the strength and density of the set cement matrix.
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Product Data

Type	Mixture of Silica Fume and other additives
Form	Grey Powder
Packaging	15 kg Bags. Special packs and bulk silo deliveries also available on request
Storage Condition	Store in a dry area in unopened original packing at temperatures 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 (Bulk) (at 20°C)	Approximately 0.65 Kg/lit.
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Application Details

Dosage	5 - 10% by weight of cement.
Compatibility	Formulations for dry and wet process depend on the type of application and specified quality. For the production of the basic mix for shotcrete applications, the following Sika products are normally used: <ul style="list-style-type: none">■ All SikaTard types■ Sikaments■ SikaPump■ Sikacrete-L



Method of Application	For dry-spray gunite, SikaFume®-TU is added to the mixer at the batching plant after the addition of the cement. Optimum mixing time: 90 seconds. For wet-spray gunite, SikaFume®-TU is added to the concrete at the batching plant before the gauging water. Optimum mixing time: 90 seconds. The quantity of water should be adjusted to suit the dosage of SikaFume®-TU and the final consistency required.
Curing	Where the work is exposed to intense sunlight or strong air currents, the freshly applied mortar should be kept damp and prevented from drying out rapidly. For optimum strengths and performance characteristics the material should be applied by a skilled nozzle man, and good curing practice should be observed at all times.
Cleaning	Uncured mortar should be removed from tools with water. To clean dry-spray cement guns simply blow-out with compressed air. Once cured, the mortar can only be removed mechanically.
Remarks	Gunite mixes incorporating SikaFume®-TU should be handled and placed in the same way as conventional mixes. Standard good guniting practice should be observed throughout, and proper curing procedures should be initiated immediately after placement. Please consult Sika's Technical Services Department for further advice.
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 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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