

Sikacrete®-Gunit 103F

Fibre Reinforced Silicafume Based Gunit Mortar for Concrete Repair

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| Product Description | Sikacrete Gunit® 103F is a one component, unaccelerated, cementitious silica-fume based gunit mortar containing fibre. Suitable for use in hot and tropical climatic conditions. |
| Uses | Typical applications for dry-spray Gunit are: <ul style="list-style-type: none">■ Concrete repair work■ Levelling of large areas■ High strength mortar■ CP overlay mortar |
| Advantages | <ul style="list-style-type: none">■ Ready for use, one-component material■ Excellent workability■ Can be trowelled and screeded after application■ High density■ Good adhesion to the substrate■ Very little rebound■ Sulphate resistant |
| Technical Data | |
| Form | Grey Powder |
| Particle Grading | 0-3 mm |
| Density | Bulk density 1.7 kg/lit Specific density 2.1 kg/lit (at 20°C) |
| Chloride content | Nil (BS 5075) |
| Compressive strength | 50 - 60 N/mm ² |
| Flexural strength | 9 - 10 N/mm ² |
| Adhesion | 1.5 - 2.5 N/mm ² (on concrete, sandblasted) |
| Modulus of elasticity | 32'000 N/mm ² (static) |
| Resistivity | Approx. 40-50 kΩ cm |
| Thickness | Minimum 9 mm Maximum 50 mm or build up in more than one coat |
| Storage Conditions Shelf life | 12 months minimum from production date in original unopened packing. Store in dry area in unopened original packing at temperature between +5° and +35°C. Protect from direct sunlight. |
| Packaging | 25 kg plastic bags |



Application

Coverage Approx. 22-25 kg/m² per 10 mm applied thickness as a general guide. The rate of coverage depends on the surface texture of the substrate, the location of the area to be sprayed (overhead or vertical) and the thickness of the applied coating.

Surface Preparation Concrete, mortar, stone: surfaces must be clean and free from all traces of loose material, laitance, oil and grease.
Iron, steel: surfaces must be clean and free from all traces of oil, grease and rust.
The substrate should be wetted down prior to application. When applying over critical substrates or reinforced concrete damaged by corrosion of the underlying steel, the use of SikaTop-Armatec 110 EpoCem as a bonding agent is advised.

Method of Application **SikaCem-Gunit® 103F** may be applied using any type of small dry-spray cement gun. When the substrate has been suitably prepared, wet down thoroughly (this is normally best done using the spray nozzle). Tip the dry gunite mortar straight into the hopper of the cement gun; the required water is added at the nozzle. As soon as the final coat has been sprayed, the gunite mortar can be trowelled and screeded. Any areas where the coverage is found to be inadequate must be resprayed in the proper manner; they should **Not** be patched with fresh rebound material scraped off the floor. Minimum application temperature is 5°C.

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 too 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.

Equipment **Recommended equipment:**
ALIVA 240 or 246
Rotor capacity (acc. to model): up to 2 litres
Hoses: ø 25/40 or 32/52
Nozzles: ø 25/15 or 32/18, 27

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 Note

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.



Sika Gulf B.S.C (c)
Bldg. 925, Road 115, Sitra Area 601
P.O. Box 15776
Adliya, Kingdom of Bahrain
TEL: +973 17738 188
Fax: +973 17732 476
E-mail: sika.gulf@bh.sika.com
Web: <http://www.sika.com.bh>

