

PRODUCT DATA SHEET

Sika® Shot-60

QUICK SETTING GUNITE MORTAR

DESCRIPTION

Sika® Shot-60 is a prepackaged, quick setting mortar suitable for dry spray guniting.

USES

A high performance, quick setting repair mortar for dry-spray application to concrete, stone and mortar substrates. Specially designed for application as ready-mixed gunite mortar for stopping severe water ingress and securing operations in the prevention of rock-falls during underground structure construction e.g.

- Tunnels and galleries
- Mining
- Culverts, reservoirs, dams

CHARACTERISTICS / ADVANTAGES

- Ready for use, one component material
- Good workability
- Very quick setting
- Very high density
- Excellent adhesion to substrate
- Formulated to minimize dust development
- Coat thickness up to 50 mm in a single application
- Chloride free

PRODUCT INFORMATION

Packaging	25 kg bags
Appearance / Colour	Powder / Grey
Shelf life	6 months from date of production If stored properly in undamaged, original, sealed packaging.
Storage conditions	Store in dry and cool conditions, protected from direct sunlight.
Bulk Density	Approx. 1.9 kg/L (at 25°C)
Maximum Grain Size	Grain size 0 - 3.35mm

TECHNICAL INFORMATION

Compressive Strength	After 1 day	After 7 days	After 28 days
	~ 25 N/mm ²	~ 40 N/mm ²	~ 45 N/mm ²
Tensile Strength in Flexure	After 7 days		After 28 days
	~ 5.0 N/mm ²		~ 7.0 N/mm ²
Tensile Adhesion Strength	~ 2.0 N/mm ² (After 28 days) Bond strength on concrete (blastcleaned)		

APPLICATION INFORMATION

Consumption	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. As a general guide, allow 25 – 30 kg/m ² per 10 mm applied thickness.
Initial Set Time	60 - 90 seconds (at 25°C/65% r.h.) Water : Powder = approx. 12% part by weight
Final Set Time	90 - 150 seconds (at 25°C/65% r.h.) Water : Powder = approx. 12% part by weight

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

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.

APPLICATION

Sika® Shot-60 may be applied using any type of small dry-spray cement gun (rotor capacity up to 2.0 litres approx.). When the substrate has been suitably prepared, wet down thoroughly (this is normally best done using the spray nozzle).

Sika® Shot-60 is placed directly into the hopper of the spraying machine; the required water is then added at the nozzle simultaneous to spraying onto highly dampened rock, concrete or masonry.

Recommended equipment:

Aliva	240 or 246
Rotor capacity (acc. to model)	up to 2 litres
Hoses	φ 25/40 or 32/52
Nozzles	φ 25/15 or 32/18, 27
Air pressure	min. 1.8 bar

CLEANING OF EQUIPMENT

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.

IMPORTANT CONSIDERATIONS

- Minimum application temperature: +5°C
- Minimum application thickness per coat: 10 mm
- Maximum application thickness per coat: 50 mm
- Finished thickness greater than 50 mm must be built up with two or more coats.

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.

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.

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 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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