

PRODUCT DATA SHEET

SikaGrout®-950

(formerly MFlow 950)

High strength, non-shrink cementitious grout

DESCRIPTION

SikaGrout®-950 is a ready to use product in powder form, which requires only the on-site addition of water to produce a high strength non-shrink grout of predictable performance.

Suitable for use in tropical and hot climatic conditions.

USES

SikaGrout®-950 is formulated for use at any consistency from fluid to plastic, and may be used with confidence for bedding, grouting and precision bearing operations such as:

- Gas or steam turbines
- Generators
- Presses
- Crane rails
- Milling machines
- Precast elements
- Anchor bolts
- For use as a high strength plastic pack repair mortar for minor structural repairs from 35–75 mm thickness.

FEATURES

- Non shrink
- Adjustable consistency
- Proven and predictable performance
- Excellent workability retention even at high ambient temperatures
- High bond strength to steel and concrete
- High early strength development even at fluid consistency
- Good fatigue and impact resistance
- Impermeable
- High compressive strength

PRODUCT INFORMATION

Packaging	25 kg bag
Appearance and colour	Grey powder
Shelf life	12 months from date of production
Storage conditions	Store in original unopened packaging in a cool and dry condition between +5 °C and +35 °C. Protect from direct sunlight, heat and moisture. Avoid excessive compaction.

TECHNICAL INFORMATION

Compressive strength	+25 °C w/p = 0.15	1 day ≥ 35 N/mm ²	7 days ≥ 70 N/mm ²	28 days ≥ 90 N/mm ²	(BS 1881, Part 116)
Flexural-strength	~11 N/mm ² (28 days)				(BS 4551, Part 1)
Chloride ion permeability	Very low				(ASTM C1202)

APPLICATION INFORMATION

Mixing ratio	Consistency	Water per 25 kg bag	Water/Powder (w/p) ratio
	Flowable	3.75 L	0.15
The strength of grout is dependent on many factors which include mixing, water addition, curing, temperature and humidity. The physical properties above gives typical average strengths of SikaGrout®-950 at 25°C.			
Yield	~12.5 L / 25 kg bag		
Layer thickness	Min. 20 mm per layer Max. 150 mm per layer		
Material temperature	+10 °C minimum / +30 °C maximum		
Substrate temperature	+10 °C minimum / +35 °C maximum		
Pot Life	~30 minutes at +25 °C		
Fresh mortar density	~2.3 g/cm ³ (+25 °C)		

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

- Avoid using mechanical vibration.
- SikaGrout®-950 should not be retempered by the later addition of water, under no circumstances.
- It is essential that a suitable grout mixer is used to obtain the optimum properties.

IMPORTANT CONSIDERATIONS

- Ensure formwork is secure and watertight to prevent movement and leaking during placing and curing.
- At high temperatures, use chilled water for mixing to keep the grout temperature below < 30 °C.
- In hot weather, base plates and foundations must be shaded from direct sunlight. Condition the bags < 30 °C prior to use.
- Do not use water in the amount or at a temperature that will produce a highly fluid consistency, or cause mixed grout to bleed or segregate.
- Due to differences in temperature between the grout under the base plate, and exposed shoulders that are subject to more rapid temperature changes, debonding and / or cracking can occur. Avoid shoulders wherever possible. If shoulders are required they should be firmly anchored with reinforcing to the substrate to prevent debonding.
- SikaGrout®-950 can be bulked with SikaEmaco® FL 100 aggregates when repair thicknesses exceeds 150 mm or when large volume void filling is required, please contact Sika Technical Services Department for advice. Water addition rate should not be increased. Site trials MUST always be conducted to verify the achievable compressive strength.
- Do not overwork the grout.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

The surface onto which the grout is to be applied should be scabbled to remove laitance and expose aggregate. Do not use bush hammers or similar preparation equipment that can crush the aggregate but leave it in place. The surface must be free of oil, dust, dirt, paint, curing compounds, etc. Soak area to be grouted with water for 24 hours prior to grouting to minimise localised absorption and to assist in the free flow of the grout. Surfaces should be damp but free of standing water.

Particular attention should be paid to bolt holes to ensure that these are water-free. Use oil free compressed air to blow out bolt holes and pockets as necessary.

Base plate, bolts, etc. must be clean and free of oil, grease and paint etc. Set and align equipment. If shims are to be removed after the grout has set, lightly grease them for easy removal.

Ensure formwork is secure and watertight to prevent movement and leaking during the placing and curing of the grout. The area should be free of excessive vibration. Shut down adjacent machinery until the grout has hardened.

In hot weather, base plates and foundations must be shaded from direct sunlight. Bags of grout should be stored in the shade prior to use, or preconditioned. In cold weather, the temperature of base plates and foundations should be raised > 10 °C.

MIXING

Damp down the inside of the grout mixer with water prior to mixing the initial batch of SikaGrout®-950. Ensure the mixer is damp but free of standing water. Add the pre-measured quantity of water. Slowly add the SikaGrout®-950, mixing continuously. Mix for at least five minutes until a smooth, uniform, lump free consistency is achieved.

APPLICATION

Lengths of metal strapping laid in the formwork prior to placing may be necessary to assist grout flow over large areas and in compacting and eliminating air pockets. Pour the grout continuously. Maintain a constant hydrostatic head, preferably of at least 15 cm. On the side where the grout has been poured, allow 10 cm clearance between the side of the form and the base plate of the machine.

On the opposite side allow 5–10 cm clearance between the formwork and the base plate.

SikaGrout® grouts are suitable for use with most types of pumping equipment.

CURING TREATMENT

Immediately after SikaGrout®-950 grout is placed, cover all exposed grout with clean damp hessian, and keep moist until grout is firm enough to accept a curing membrane.

Should the grout shoulders require finishing work, this should be carried out prior to application of the curing membrane. We recommend the use of a curing membrane from our Antisol® range.

CLEANING OF EQUIPMENT

Clean equipment and mixer immediately after application with water. Hardened material can only be removed mechanically.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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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ISO 9001, 14001, 45001 – SGS
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ISO 9001, 14001 – TÜV
Sika MB Construction Chemicals LLC
Sika Construction Chemicals for Manufacturing LLC
ISO 9001 – LMS
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All products are supplied under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and ISO 45001.



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