

## PRODUCT DATA SHEET

# SikaGrout<sup>®</sup>-950 SA

High strength, non-shrink cement-based precision grout

## DESCRIPTION

SikaGrout<sup>®</sup>-950 SA is a ready-to-use, high-strength, non-shrink precision grout supplied in powder form. It requires only the addition of water on-site to produce a precision grout with high early and ultimate strengths and predictable performance.

Formulated with non-metallic aggregates, SikaGrout<sup>®</sup>-950 SA is engineered to maintain extended working time even in high ambient temperatures. When mixed to a flowable consistency, it ensures complete void filling for thicknesses ranging from 10 mm to 150 mm.

## USES

SikaGrout<sup>®</sup>-950 SA is used for precision, non-shrink grouting applications with clearances of 10mm or more, including:

- Critical equipment baseplates
- Machine foundations
- Bridge bearings
- Precast elements
- Concrete anchors
- High strength concrete repair applications

## PRODUCT INFORMATION

<b>Composition</b>	Cement, selected fillers and aggregates, special additives
<b>Packaging</b>	25 kg bags
<b>Appearance and colour</b>	Grey Powder
<b>Shelf life</b>	6 months from the date of production
<b>Storage conditions</b>	Store in original unopened packaging in cool and dry condition between +5 °C and +30 °C. Protect from direct sunlight, heat, and moisture.

## FEATURES

SikaGrout<sup>®</sup>-950 SA is an easy to use precision grout requiring only the addition of water. It offers the following beneficial properties:

- High early & ultimate strengths
- Very good flow characteristics
- High Young's modulus for exceptional stiffness
- Good fatigue and impact resistance
- Shrinkage-compensated
- Extended working time
- Excellent workability retention even at high ambient temperatures
- No segregation or bleeding
- Does not contain metallic components and added chloride or other admixtures that may corrode steel

## CERTIFICATES AND TEST REPORTS

Complies with ASTM C1107 as Type-C

## TECHNICAL INFORMATION

<b>Compressive strength</b>	<u>1 day</u>	<u>&gt; 45 N/mm<sup>2</sup></u>	(ASTM C 109)
	<u>7 days</u>	<u>&gt; 70 N/mm<sup>2</sup></u>	
	<u>28 days</u>	<u>&gt; 95 N/mm<sup>2</sup></u>	
The above strength values are based on a mixing water content of 2.75 L per 25 kg bag.			
<b>Flexural-strength</b>	~ 10 N/mm <sup>2</sup> at 28 days		(BS 6319-7)
<b>Expansion</b>	≥ 0.2% within 24 hours		(ASTM C827)
<b>Tensile adhesion strength</b>	> 1.5 N/mm <sup>2</sup> at 28 days		(ASTM D4541)

## APPLICATION INFORMATION

<b>Mixing ratio</b>	2.75 - 3.00 L of water per 25 kg bag
<b>Yield</b>	~ 11.50 L per 25kg bag
<b>Layer thickness</b>	Min. 10 mm per pour Max. 150 mm per pour
<b>Ambient air temperature</b>	+10 °C min. / +35 °C max.
<b>Substrate temperature</b>	+10 °C min. / +35 °C max.
<b>Pot Life</b>	~ 45 minutes at +23 °C
<b>Fresh mortar density</b>	~ 2.40 kg/L

## 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.

## IMPORTANT CONSIDERATIONS

- Protect from direct sun and, or strong wind.
- Use only on clean, sound substrate.
- Do not exceed the recommended water dosage.
- Keep exposed surfaces to a minimum.
- Do not use vibrating pokers.
- Pour or pump from one side only. Avoid exposing grout surfaces during rainfall and prior to final set.
- Ensure formwork is secure and watertight to prevent movement and leaking during placing and curing.
- At high ambient temperatures, use chilled water for mixing to keep the grout temperatures below +30 °C.
- In hot weather, protect base plates and foundations from direct sunlight. Condition bags to +23–28 °C before use.
- Depending on requirements and site condition, the addition of pre-washed clean coarse aggregates (6-10 mm) is possible up to 10 kg per 25kg bag. Trials are recommended to confirm strength development and suitability of aggregates to be used.
- For additional information on SikaGrout®-950 SA or other grouting materials contact Sika Technical Department.

## 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

### SUBSTRATE QUALITY / PRE-TREATMENT

Concrete surfaces must be clean, sound, roughened, and free from oil, grease, dust, paint, curing compounds, cement laitance, and all loose or weak material. Scrape the surface to remove laitance and expose sound aggregate; do not use bush hammers or other tools that may crush the aggregate without removing it.

Saturate the concrete surfaces with clean water for minimum 4 hours prior grouting to ensure it is in saturated surface dry (SSD) condition at the time of grouting to reduce absorption and improve grout flow. Surfaces must be damp (SSD condition) but free of standing water at the time of application. Bolt holes and pockets must be completely free of water. Clean and dry the pockets using oil-free compressed air.

All metal components such as base plates and anchor bolts must be clean and free from rust, scale, oil, grease, and paint. Align equipment in place, and lightly grease removable shims to facilitate extraction after the grout has hardened.

Ensure formwork is secure, watertight, and able to resist movement or leakage during grout placement and curing. The area should be free from vibration; adjacent equipment should remain shut down until the grout has hardened.

In hot weather, shade base plates, foundations, and grout materials from direct sunlight. In cold weather, ensure substrate and steel temperatures are maintained above +10 °C.

## MIXING

Add clean water according to the desired consistency into a clean mixing vessel. Add the pre-measured mixing water, then slowly introduce SikaGrout®-950 SA while mixing continuously. Mix for at least five minutes until a smooth, uniform, and lump-free grout is obtained.

A slow-speed drill with a suitable paddle (maximum 500 rpm) may also be used. Tumble-type concrete mixers are not suitable and must not be used. Mix only full bags, and do not prepare more material than can be placed within 15 to 20 minutes. Do not add extra water or any other ingredients.

Use cool water in hot weather to keep the mixed grout temperature below +30 °C.

Use warm water in cold weather to maintain the mixed grout temperature above +15 °C.

## APPLICATION

Allow the mixed grout to stand for approximately 5 minutes after mixing so that entrapped air can escape. Pour the grout into the prepared area from the side that provides the shortest flow path. Ensure that air displaced by the advancing grout is able to escape freely. When grouting under base plates, maintain a sufficient head of pressure to ensure continuous flow. Exposed grout surfaces should be kept as small as possible.

Place the grout in a continuous operation. Maintain a constant hydrostatic head of at least 15 cm to ensure uninterrupted flow. On the pouring side, leave a clearance of about 10 cm between the formwork and the machine base plate. On the opposite side, provide a clearance of 5 cm to allow proper grout rise and venting.

SikaGrout®-950 SA is suitable for use with most standard pumping equipment.

Immediately after placing SikaGrout®-950 SA, cover all exposed surfaces with clean, damp hessian and keep them moist until the grout is fully cured.

**The width of any grout shoulder be kept minimum as possible and it must not exceed the thickness of the grout layer beneath the base plate.**

Wider shoulders are more exposed to rapid temperature changes and drying, which significantly increases the risk of cracking and debonding. Due to temperature differences between the grout beneath the base plate and the exposed shoulders, which are more sensitive to rapid temperature changes, debonding or cracking may occur. If wide shoulders are required, they must be anchored securely with reinforcement to the substrate to reduce the risk of debonding.

## CURING TREATMENT

Protect exposed grout surfaces after finishing from premature drying and cracking by curing with water or wet hessian for 7 days. Do not commence fogging until the grout has reached the final set.

## 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:  
- Sika UAE LLC  
- Sika International Chemicals LLC  
- Sika Gulf B.S.C. (c)  
ISO 9001, 14001 – SGS:  
- Sika Saudi Arabia Limited  
ISO 9001, 14001 – TÜV:  
- Sika UAE LLC (Branch)  
ISO 9001 – SGS:  
- Sika MB LLC

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.



### Product Data Sheet

#### SikaGrout®-950 SA

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