

SikaGrout® GP

Shrinkage compensated, pumpable, general purpose

Description	SikaGrout® GP is shrinkage compensated, self-levelling, pre-mixed cementitious grouting mortar with extending working time to suit local ambient temperature.
Use	SikaGrout® GP is suitable for the following grouting works: <ul style="list-style-type: none">■ Machine foundations (non vibrating)■ Rails beds■ Columns in precast construction■ Anchor bolts■ Bridge bearings■ Cavities■ Gaps■ Recesses■ Concrete repair
Advantages	SikaGrout® GP is economical and easy to use. Other beneficial properties are: <ul style="list-style-type: none">■ Excellent flowability■ Good dimensional stability■ High strength, adjustable consistency■ No bleeding■ Non toxic, non corrosive■ Ready to use, requires only the addition of water■ Impact and vibration resistant■ Can be placed with suitable grout pump
Certificates	Local test report is available
Product Data	
Form/Colour	Powder / Concrete grey
Packaging	25 kg/ bag
Storage	Dry, cool, shaded place
Shelf life	Min. 6 months if stored properly in unopened, original packaging



Technical Data

Density	~ 1.60 kg/ltr (bulk density of powder) ~ 2.20 kg/ltr (density of fresh mortar)
Mixing ratio (normal)	SikaGrout : Water = 1 : 0.14 (parts by weight)
Consistency	Water requirement can be from 3.25 to 3.75 litres per 25 kg bag depending on the required consistency.
Consumption	1 bag yields approx. 13.10 litres of mortar Approx. 76 bags required for 1 (one) m ³ of mortar
Application temperature	Minimum 10 °C Maximum 40 °C
Minimum gap	10 mm
Maximum gap	Please contact Sika Technical Service Department

Performance (27 °C / 65 % r.h)	Properties	Value	Standard
	Water content	13 - 15 %	
	Flow table spread	25 - 32 cm	ASTM C230-90, no strokes
	Bleeding	Nil	ASTM C940 - 89
	Expansion (at 3h)	≥ 0.1%	ASTM C940 - 89
	Initial setting time	≥ 5 h	ASTM C403 - 90
	Final setting time	≤ 12 h	ASTM C403 - 90

Compressive strength (27°C)	1 day	15-20 N/mm ²	ASTM C349 / C109
	3 days	25-35 N/mm ²	ASTM C349 / C109
	28 days	≥ 40 N/mm ²	ASTM C349 / C109

Application

Surface preparation Concrete surfaces should be clean, sound and free from oil, grease, laitance and loose particles.
Metal surfaces (iron and steel) should be free from scale, rust, oil and grease.
Absorbent substrates must be saturated thoroughly, but no standing water.

Mixing Powder should be added to the pre-gauged water to suit the desired consistency.
Mix mechanically for at least 3 minutes with a low speed electric drill (max. 500 r.p.m.) with a disc agitator attached, until a smooth consistency is achieved.
Mixing equipment such as two arms, forced action basket/pan type mixer can also be used.

Application Pour mortar after mixing. Ensure that air entrapped into the grout is allowed to escape. When carrying out base plate grouting, ensure sufficient pressure head is maintained to keep mortar flow uninterrupted. Make sure that necessary form work is firmly in place and watertight. To achieve optimum expansion result, apply mortar as quickly as possible (preferably within 15 minutes after mixing)

Grouting of machine beds

Pre-wet thoroughly, no standing water in bolt holes. If possible, grout anchor first, and the mortar bed in the second operation. Ensure continuous flow of mortar.

Grouting base plate

Prewetting for approx. 24 hours, no standing water. Maintain constant hydro-static pressure to continuous flow. Use steel rods or chain to make sure that all cavities are filled. Make sure that entrapped air can escape easily.

Grouting of large cavities / large volume

Depending on the volume to be filled and thickness of gap, large aggregates may be added to the SikaGrout® GP at a ratio of between 50-100% by weight of SikaGrout® GP powder. Round aggregates are more suitable than crushed ones.

As a rule of thumb, minimum thickness of gap to be grouted shall be 3 times max. grain size diameter of aggregate.

For grouting large section thicker than 60 mm, addition of large aggregate and/or use of cold water will minimize temperature rise generated during early hardening period.

Special anchoring (rock bolt in tunnels). Please consult Sika for additional information all anchoring and grouting products.

Curing	Keep visible, free mortar surface as small as possible and protect it from premature drying out by standard curing practice (keep moist, cover with wet hessian, use of curing compound e.g. Antisol® E).
Cleaning	Clean all tools and equipment with water immediately after use. Hardened mortar can only be removed mechanically.
Remark	<p>Minimum application temperature is 10°C. At temperature lower than 20°C setting time and strength gain will be slower.</p> <p>Normal curing practice should be observed for at least 3 days wherever mortar is exposed.</p> <p>In case of grouting large cavities/volume, SikaGrout® GP is the most suitable.</p>

Health and Safety Information

Ecology	Do not dispose into water
Transportation class	Non-hazardous
Waste disposal	According to local law
Important notes	<p>SikaGrout® is cement base and is therefore alkaline. Suitable precautions should be taken to minimize direct contact with the skin. If the material gets into the eyes, rinse immediately with clean water and seek medical attention.</p> <p>The strength values mentioned are average values of laboratory tests. The results on the site may vary due to different environment, curing conditions and testing.</p> <p>Trials should be always conducted before application.</p> <p>Always refer to the latest updated product data sheet.</p>

Disclaimer

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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