

SikaGunite GP

One component Gunite applied repair mortar

Description	SikaGunite GP is a cement-based, ready to use, one component mortar. It is applied by mechanical application on vertical and overhead surfaces using the wet or dry spraying process, and can be used in civil or mining applications.
Uses	<ul style="list-style-type: none">▪ Concrete repair of bridges, canals, sewer linings, sea walls, culverts and tunnels.▪ Pier and dock supports.▪ Sewage treatment plants.▪ Marine environments.▪ Retaining walls.▪ Protection of steel work.▪ Embankment protection and stabilisation.▪ Suitable as an overlayment in Impressed Current Cathodic Protection Systems.
Advantages	<ul style="list-style-type: none">▪ Easy to use with the addition of potable water.▪ Economical.▪ High resistance to chloride and sulfates.▪ Excellent abrasion resistance.▪ Controlled shrinkage.
Storage and Shelf Life	Stored in original, unopened packaging, in cool, dry conditions, this product will keep for a minimum of twelve (12) months. High quality work can only be achieved if it is conscientiously undertaken by experienced applicators, giving adequate attention to detail to surface preparation, priming steel, application and curing etc.
Instructions for Use	
Surface Preparation	Precise and efficient surface preparation is essential to achieve the high bond qualities of gunite. All concrete, mortar and stone substrates must be sound, clean and free from oils, grease and surface contaminants. All loose materials and surface laitance must be removed. Grit or grit/water blasting or scabbling is recommended. Just prior to application pre-wet and wash down the substrate with water and air pressure from the spraying machine, blowing off any excess surface water with oil free pressurised air before spraying.
Priming (reinforcement)	Small amount of reinforcement. 24 hours before gunite application, apply 2 coats of brush applied SikaTop-110 EpoCem to the prepared steel (refer to the SikaTop-110 EpoCem data sheet). Large amount of reinforcement. 24 hours before gunite application, apply 2 coats of SikaTop-110 EpoCem by spray equipment to the prepared steel (refer to the SikaTop-110 EpoCem data sheet).
Application	SikaGunite GP can be applied by wet and dry spraying process. In the dry shot process, the nozzleman determines the water content of the mix and therefore the quality of the sprayed mortar. A lower water/cement ration can result in too much dust and a higher water/cement ratio can give a flowing mortar that will slump off the substrate. For applications to vertical surfaces there is almost no limit to the layer thickness achievable. Overhead repairs should not be sprayed in layers thicker than 100 to 150mm. After spraying immediately screed off and trowel.
Cleaning	Remove non hardened Gunite from tools and equipment with water. Hardened material can only be removed mechanically.
Curing	Proper curing procedures are important to ensure the durability and quality of the repair. To prevent surface cracking, cure the repair mortar using plastic sheets, wet hession, or curing compounds such as SikaCure.

Technical Data (Typical)

Mixed Colour	Concrete grey	
Density	2080 kg/m ³	
Setting Time	Initial: 50-60 mins	Final: 90-120 mins (water/powder ratio: 0.113)
Compressive Strength	>20 MPa @ 1 day >50 MPa @ 7 days >70 MPa @ 28 days	(AS 1478.2)
Flexural Strength	6 MPa @ 28 days	(ASTM C348)
Resistivity	<25,000 ohm.cm @ 28 days <50,000 ohm.cm @ 56 days <69,000 ohm.cm @ 90 days	(Warner Probe, FM 5-578)
Yield	Approx. 105 bags per m ³	
Shrinkage	570 microstrain @ 28 days	(AS 2350.13)
Packaging	20 kg bag	

Important Notes

- Store SikaGunite-GP in dry conditions.
- Use only potable water at the nozzle. Please consult with technical department, for any initial recommendation on required amount of water.
- Never apply to dry substrates.
- Minimum surface and ambient temperature of 4°C during application.
- Minimum application thickness is 12 mm.

Handling Precautions

- Avoid contact with the skin.
- Protective gloves and clothing are recommended when using this product.
- A full Material Safety Data Sheet is available from Sika on request.

Important Notification

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 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 proprietary rights of third parties must be observed. All orders are accepted subject to our current terms and conditions of sale. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.

PLEASE CONSULT OUR TECHNICAL DEPARTMENT FOR FURTHER INFORMATION.

