SikaGrout[®]GP

General purpose shrinkage compensated cementitious grout

Description	SikaGrout GP is a general purpose cementitious grout that is shrinkag compensated.				
	SikaGrout GP is a blend of Portland cement, carefully selected and graded aggregates and admixtures.				
Uses	 General purpose grouting. Machine and structural base plants. Anchor bolts. Pre-cast concrete sections. Cavities, gaps and recesses. 				
Advantages	Shrinkage compensating properties.				
-	Similar appearance to concrete.				
	 Contains no chlorides, or corrosive ingredients. 				
	Can be dry packed, rammed, trowelled, poured or pumped.				
Storage and Shelf Life	Stored in the original sealed packaging in dry conditions, this product w keep for at least nine (9) months.				
Instructions for Use					
Surface Preparation	Correct and thorough surface preparation is essential to achieve the hig performance qualities of SikaGrout GP.				
	All surfaces must be clean, sound and free from dust, ice, oils, grease and other surface contaminants such as curing membranes and form release agents etc. Bolt holes and fixing pockets should be free of dirt and debris by air blasting. For maximum bond, surfaces should be abraded or roughened preferably by mechanical means such as needle gun, grit blasting, grinding etc.				
	All prepared surfaces must be saturated with water several hours prior to grouting, ensuring it is free of any surface water or puddles.				
Formwork	The formwork used must be leak proof to allow for the free flowing SikaGrou GP. The formwork should be arranged so that the grout head is maintained on the side above the level of the underside of the base plate. This will allow gravity flow to completely fill the void to be granted.				
	Formwork should be coated with form oil to allow easy removal of forms Ensure adequate air holes are provided.				
Temperature Control	Temperature effects setting time and rate of increase for strength. Fo optimum performance maintain grout, concrete and/or steel substrates with the range of 18-25°C prior to, during, and for 48 hours after placement of the grout.				
	At low temperatures (below 10°C) grout setting time is extended and bleeding may occur. As a result, base plate contact may be reduced. To reduce the setting time of SikaGrout GP, accelerating admixtures such as Sika-4A o SikaRapid-2 may be added.				
	At high temperatures (greater than 30°C) grout setting time is reduced affecting placement. It is recommended that grouting at high temperatures be sheltered from the heat, or be conducted early in the morning.				
	It is good practice to keep materials cool in high temperatures using colo water for mixing. Setting times can also be increased using a retarding admixture such as SikaTard-930.				
	It is suggested that the site trials be conducted to determine optimum dosage				





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Application			
Mixing Equipment	SikaGrout GP must be mechanically mixed using a mechanical groum mixer or a suitable drum mixer. The grout mixer will reduce the chance of the mix becoming lumpy or aerated.		
	Smaller quantities should be mixed in a clean drum using an electric dri and spiral mixer at a speed of approximately 500rpm.		
	DO NOT MIX BY HAND.		
Mixing Method	 Stiff grout, add 2.9 litres of water per 20kg bag. Plastic grout, add 3.2 litres of water per 20kg bag. 		
	Flowable grout, add 4.6 litres of water per 20kg bag.		
	2) Add all the required water into the mixer.		
	3) Add all the dry material into the mixer as it operates.		
	4) Mix until the grout appears homogenous (3-5 minutes). Allow to stan so any entrapped air can escape. Do not add more water to increase flow of the grout is a mix has stiffened due to time delays. If grout i unworkable, discard.		
	Note: Do not add water in amounts that will cause bleeding or segregation. More or less water may be required depending on th temperature and other variables.		
Placement	SikaGrout GP can be place by either packing and tamping, gravity flow of by pump. It is essential that proper placing on the job site is practiced t ensure placement is completed without problems. Sufficient labour, grou and equipment must be present to ensure continuous placement.		
	1) Gravity Flow		
	Mixed grout should be poured on one side of the void to avoid a entrapment. Grout is best poured over short distances to ensure this Use a suitable header box, maintaining the grout head at all times t ensure a continuous flow.		
	To facilitate grout compaction and top plate contact, use rodding, tampin or flexible strapping in short strokes while maintaining an adequate hea of grout. Do not vibrate as this will cause segregation. Any adjacer machinery or equipment causing vibration should be shut down until initia set.		
	2) Pumping		
	When pumping SikaGrout GP, ensure the pump is suitable for the grou consistency and for the distance and height it is to be pumped. A positiv displacement pump is recommended. Place grout by pumping into th farthest corner, filling the space gradually. Ensure that air is no entrapped under the base plate.		
	3) Stiff Packaging		
	Stiff packing, or hand placing, must be done with sufficient water for a sti consistency to assure hydration and strength development of the grou Apply by placing and tamping into the void. Wooden ramming tools ar recommended as steel tools leave the surface too smooth to bond reliabl to the next layer. Be careful during the packing process not to knoc critical plates out of alignment.		
Placement Thickness	Recommended thickness of SikaGrout GP in one pour is 20mm to 50mm Minimum thickness is 10mm. Any grout pour that exceeds this should b done in stages, or have stone aggregate added to it, to reduce th exothermic heat. Contact Sika's Technical Department for further information.		
Curing	Suitable curing methods such as plastic sheet, wet hessian, liqui membrane (eg. Antisol curing membranes) etc. must be used to protect the freshly applied grout from the drying effects of sun and wind. Curin must commence immediately after placement, and continue for at least days. Curing is vital to the ultimate performance of the grout as it allow optimum strength development and ensures tight contact with the bas plate.		



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Cleaning

Remove uncured SikaGrout GP from tools and equipment with water. Hardened material can only be removed mechanically.

Technical Data (Typical)								
Form	Grey powder							
Density (mixed)	2100 kg/m ³ approx. (dependent on water addition rate)							
Potlife @ 20°C	30 minutes approx.							
Application temperature	Minimum 5°C							
	Maximum 35°C							
Colour	Grey (when mixed)							
Yield @ 20°C (Plastic)			Stiff	Plastic	Flowable			
	Approximate yield per 20kg	bag	11.0 litres	11.3 litres	11.6 litres			
Compressive Strength	Age							
(tested at 20°C)	3 days >25 MPa							
	7 days >3	>35 MPa						
	28 days >5	>50 MPa						
Packaging	20 kg paper bag							
Important Notes	 For detailed information on grouting application, specifications an guidelines, refer to Sika Grouting Systems. 							
	 While SikaGrout GP is designed to be placed at a variety of consistencies, it is generally used at a plastic consistency. 							
	Store SikaGrout GP in dry conditions in unopened original packaging.							
	Never apply to dry substrates.							
	 For high performance Plastic grout, use SikaGrout 212HP. 							
Handling Precautions	Avoid contact with the skin.							
	 Protective gloves and clothing are recommended when mixing or usin 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's products, are given in good faith based on Sika's current knowledge and experience of the products wher properly stored, handled and applied under normal conditions. If 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 of our terms and conditions of sale. Users should always refer to the most recent issue of the Australian version of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.							







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