SikaGrout[®]-Deep Pour

Flowable grout for deep pours up to 500 mm

Description	SikaGrout [®] -Deep Pour is a ready mixed, high quality, Portland cement grout that expands in two stages to counteract the shrinkage normally associated with Portland cement grouts.		
	SikaGrout-Deep Pour is a blend of Portland cement, carefully selected and graded aggregates and Sika Admixtures, enabling it to achieve high strengths in short times, making SikaGrout-Deep Pour suitable for grouting of large sections and deep pours of up to 500mm		
Uses	Machine bedplates		
	Anchor bolts.		
	Bridge bearing pads.		
	Pre-cast concrete sections.		
Advantages	Shrinkage compensating properties,		
C	High early strengths.		
	High 28 day strengths.		
	Good flow characteristics.		
	Adjustable consistency.		
	Does not segregate or bleed.		
	Good impact and thermal resistance.		
	Non corrosive to steel or iron.		
	Lab tested in accordance with AS 1478.2		
Shelf life	Stored in unopened original containers protected from direct sunlight and frost, shelf life is at least nine (9) months.		
Instructions for Use			
Surface Preparation	Correct and thorough surface preparation is essential to achieve the high performance qualities of SikaGrout-Deep Pour.		
	All surfaces must be clean, sound and free from dust, ice, oils, grease or other surface contaminants such as curing membranes and form release agent 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 free flowing SikaGrout- Deep Pour. 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 affects setting time and rate of increase for strength. For optimum performance maintain grout, concrete and/or steel substrates within the range of 18-25°C prior to, during, and for 48 hours after placement of the		

grout.



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Temperature control (cont- inued)	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-Deep Pour, accelerating admixtures such as Sika- 4A or Sika Rapid-1 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 cold water for mixing. Setting times can also be increased using a retarding admixture such as SikaTard-930. It is suggested that site trials be conducted to determine optimum dosage rates for recommended admixtures. For further details contact Sika's Technical Department.		
Application			
Mixing equipment	SikaGrout-Deep Pour must be mechanically mixed using a mechanical grout mixer or a suitable drum mixer. The grout mixer will reduce the chances of the mix becoming lumpy or aerated. It is recommended to mix a full bag in clean drum using an electric drill and		
	spiral drill and spiral mixer at a speed of approximately 500 rpm.		
	DO NOT MIX BY HAND.		
Mixing Method	 Add up to 2.6 litres of water per 20 kg bag. Add the neuroday and the annual sector and the annual sector and the s		
	 Add the powder component to approximately 70% of the total amount water component while mixing. 		
	 Add the remaining 30% of the water component to the grout at a steady rate while continuing to mix. 		
	4) Mix until the grout appears homogenous (3-5 minutes). Allow to stand so any entrapped air can escape. Do not add more water to increase flow of the grout if a mix has stiffened due to time delays. If the grout is unworkable discard.		
Placement	SikaGrout-Deep Pour can be placed by gravity flow or by pump. It is essential that proper placing on the job site is practised to ensure placement is completed without problems. Sufficient labour, grout and equipment must be present to ensure continuous placement.		
Gravity Flow	Mixed grout should be poured one side of the void to avoid air entrapment. Grout is best poured over short distances to ensure this. Use a suitable header box, maintaining the grout head at all times to ensure continuous flow.		
	To facilitate grout compaction and top plate contact, use rodding, tamping or flexible strapping in short strokes while maintaining an adequate head of grout. Do not vibrate as this will cause segregation. Any adjacent machinery or equipment causing vibration should be shut down until initial set (5 to 6 hours)		
Pumping	When pumping SikaGrout-Deep Pour, ensure the pump is suitable for the grout consistency and for the distance and height it is to be pumped. A positive displacement pump is recommended. Place grout by pumping into the farthest corner, filling the space gradually. Ensure that air is not entrapped under the base plate. Maximum aggregate size is 5mm. Ensure that selected pump is suitable for pumping this size of aggregate		
Placement Thickness	Recommended thickness of SikaGrout-Deep Pour in one pour is from 20 mm to 500 mm. Any grout pour that exceeds this should be done in stages, or have stone aggregate added to it, to reduce the exothermic heat. Contact Sika's Technical Department for further information.		





Curing	Suitable curing methods such as plastic sheet, wet hessian, liquid membrane (eg, Antisol curing membranes) etc. must be used to protect the freshly applied grout from the drying effects of sun and wind. Curing must commence immediately after placement, and continue for at least 7 days. Curing is vital to the ultimate performance of grout as it allows optimum strength development and ensures tight contact with the baseplate.			
Cleaning	Remove uncured SikaGrout- Deep Pour from tools and equipment with water Hardened material can only be removed mechanically.			
Technical Data (Typica	l)			
Form	Grey Powder			
Granulometry	0 - 5.0 mm			
Density (mixed)	2115 kg/m ³ approx. (dependent on water addition rate)			
Pot life @ 20ºC	30 minutes approx.			
Application temperature	Minimum 5ºC Maximum 35ºC			
Colour	Grey (when mixed)			
Yield @ 20°C				
	Approximate yield per 20kg bag			10.5 litres
	Approximate number of 20kg bags required for 1m ³ of grout			95
Workability (tested to AS1478.2-2005)	400 - 600 mm (flowable consistenc	;y)		
Packaging	20 kg bag			
Strength Properties (Tested to AS1478.2)	Compressive Strength (MPa): (Tested at 20ºC)	Age 1 day 3 days 7 days 28 days	MPa ~ 12 ~ 30 ~ 40 ~ 60	
	Note: Results for compressive stre samples and with a maximum wate			

samples and with a maximum water content. Test results using an alternate standard and sample dimension will vary.



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Important Notes	 For detailed information on grouting application and guidelines, refer to Sika Grouting Systems. 				
	 Store SikaGrout-Deep Pour in dry conditions in unopened original packaging. Never apply to a dry substrate. 				
	 Trials should always be conducted when adding a recommended Sika Admxiture to SikaGrout-Deep Pour to determine the optimum dosage rates under local conditions. 				
	 Sika Ferrogard-901 can be added to the mixing water (0.3 litres per 20kg bag) before mixing the grout to enhance protection of steel reinforcement. 				
Handling Precautions	 Avoid contact with skin and eyes. Wear protective gloves and eye protection during work. If skin contact occurs, wash skin thoroughly. 				
Important Notification					
	PLEASE CONSULT OUR TECHNICAL DEPARTMENT FOR FURTHER INFORMATION.				



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