Product Data Sheet Edition 10/07/2009 Identification no: 01 02 01 01 001 0 000002 SikaGrout® 212

SikaGrout[®] 212

Flowable Shrinkage Compensated Cementitious Grout

Product Description	SikaGrout 212 is a one part flowable shrinkage compensated cementitious grout.		
Uses	Under stanchion plates		
	Void filling		
	Concrete repairs		
	Machine base plates		
	For exterior and interior use		
Characteristics / Advantages	Excellent flow properties		
	Pre batched for quality		
	Just add water		
	Compatible with Sika [®] FerroGard [®] corrosion inhibitors		
	High compressive strength gain		
	Easy to mix and apply		
	Excellent bond to concrete		
	Contains no chloride admixtures		
	Overcoatable with Sika reprofiling/levelling mortars and coatings		
	Low shrinkage		
	Generally more durable than equivalent class of concrete		
	Does not segregate or bleed		
	Fire rating and protection properties comparable to concrete		
	Can be pumped or poured		
	Good mechanical properties		
	Grouting thickness between 10-75 mm		

Product Data

Form

Appearance / Colour	Grey powder
Packaging	25 kg bags
Storage	
Storage Conditions / Shelf-Life	6 months from date of production if stored properly in dry conditions in undamaged and unopened original sealed packaging.



Chemical Base	Cement, selected fillers and aggregates, special additives				
Density	~ 2200 kgm ³ (wet density)				
Layer Thickness	10 mm min. / 75 mm max.				
Mechanical / Physical Properties					
Compressive Strength	Ambient temperature	: +20°C			
	1 day	3 days	7 days	28 days	
	~ 18-20 N/mm ²	~ 35-40 N/mm ²	~ 40-45 N/mm ²	~ 50-55 N/mm ²	
Early Expansion	0.25 – 0.50%				
System Information					
Application Details					
Consumption	2.2 kg/m2/mm (2.2 kg/litre) Excluding allowances for loss wastage, surface profile and porosity.			ge, surface profile	
Substrate Quality	<i>Concrete, mortar, stone:</i> Surfaces must be sound, clean, free from ice, oils, grease, standing water and any loose or friable particles and any other surface contaminants.				
	The concrete "pull off" (tensile) strength should be > 1.0 MPa.				
	<i>Steel, iron:</i> Clean, free from oil or grease, rust and scale etc.				
	Clean, free from oil o	r grease, rust and sca	ale etc.		
	Shutter/Formwork: All formwork should b to prevent leakage. S beneath or around fo for extraction of the p	be of adequate streng Sealing can be achiev rmwork and between rre-soaking water. A rmwork so that a grou	ate etc. yth, treated with releas ved by using Sikaflex joints. Ensure formw header box/hopper sh it head of 150-200 mn	-11FC+ sealant ork includes outlets ould be constructed	
Substrate Preparation	Shutter/Formwork: All formwork should b to prevent leakage. S beneath or around fo for extraction of the p on one side of the for during the grouting of The substrate should such as high pressur The concrete substrate	be of adequate streng Sealing can be achiev rmwork and between pre-soaking water. A rmwork so that a grou peration. be prepared by suita e water jetting, break ttes should be pre-soa	oth, treated with releas ved by using Sikaflex joints. Ensure formw header box/hopper sh	•11FC+ sealant ork includes outlets ould be constructed n can be maintained ration techniques abblers, etc. continuously for	

Substrate Temperature	+5 °C min. / +30 °C max.				
Ambient Temperature	+5 °C min. / +30 °C max.				
	+5 C mm. / +50 C max.				
Application Instructions					
Mixing	Measure the appropriate amount of water to achieve the desired grout consistency given in the table below. Heat water if necessary to achieve a temperature between 15-20°C.				
	Water addition rate per 25 kg bag				
	Pourable consistency				
	Flowable consistency	2.3 – 3.9 litres			
Mining Time	0 minutes minimum				
Mixing Time	2 minutes minimum				
Mixing Tools	Place the water into a forced action grout mixer or in a clean drum. Slowly add complete bag of SikaGrout[®] 212 into the water and continuously mix for 2 minutes in mixer to achieve a uniform and lump free consistency. Alternatively use a slow speed drill (200-500 rpm) and helical mixer.				
	Dependent on the desired consistency and flow properties, the mixing ratio can be adjusted.				
Application Method	Pour the mixed grout into the header box/hopper ensuring continuous grout flow during the complete grouting operation to avoid trapping air. Use steel banding or chains to assist flow where necessary. For large volume placement, grout pumps are recommended.				
Cleaning of Tools	Clean all tools and application equipment with water immediately after use. Hardened/cured material can only be mechanically removed.				
Notes on Application / Limitations	- Do not exceed water addition				
	- Not to be used for patch repair works				
	- Do not use vibrating pokers				
	- Use only on clean, sound subs	trate			
	- Do not apply when there is a ri	sk of frost			
	- Pour or pump from one side only				
	- Keep exposed surfaces to a minimum				
Curing Details					
Curing Treatment	After the grout has initially hardened, remove formwork and trim edges while concrete is 'green'. Cure all exposed grout surfaces using Sikafloor[®] ProSeal .				
	In cold weather apply heat blankets to maintain a constant temperature.				
Value Base	All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.				
Local Restrictions		fic local regulations the performance of this untry. Please consult the local Product Data			

Health and Safety Information	For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.
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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