## Sikagrout<sup>®</sup> -214

High Performance, Non Shrink, Expanding Cementitious Grouting Mortar

Product Description	Sikagrout <sup>®</sup> -214 is a high performance, shrinkage compensating, ready to use grouting mortar. Consisting of : ■ A blend of cement & fillers, ■ Properly graded quartz aggregates, ■ And Special additives.
	When mixed with water, the product forms a fluid grey coloured grout (similar to concrete colour).
Uses	<ul> <li>Anchorage of bolts or iron bars in concrete.</li> <li>Precision grouting for industrial equipments, subject to shocks and vibrations.</li> <li>Grouting of railway rails or travelling crane tracks.</li> <li>Grouting for turbines, alternators, compressors, generators, machine tools.</li> <li>Beam keying or bridge springier support construction.</li> <li>Assembly of metal reinforced concrete or prestressed concrete prefabricated elements.</li> </ul>
Advantages	Sikagrout <sup>®</sup> -214 is chloride free and contains no metal particles. Consequently, it does not oxidize when in contact with humidity. Instead it protects metal parts from corrosion owing to its high alkaline Ph.
	It has a unique 2-stage shrinkage compensating system, with a very special blend of shrinkage and water reducing, plasticizing agents, offering the following beneficial properties:
	High mechanical compressive and bending resistances.
	<ul> <li>Adheres to concrete, mortar and steel, ensuring a monolithic bond.</li> <li>Can be pumped, injected, vibrated or compacted. It's not altered by large humidity or temp. variations.</li> <li>Resistant to water and oil penetration.</li> </ul>
	<ul> <li>High initial strength reduces down time requirement.</li> </ul>
Approvals / Standards	<ul> <li>U.S. Corps of Engineers: CRD C-621 expansion percent.</li> <li>ASTM C-1107 for 2 stage expansion Grout Grades B+C.</li> <li>British Standards for compression, bond and flexural.</li> <li>Tested and approved by the National Organization for potable water &amp; sanitary drainage for contact with potable water and sewage.</li> </ul>
	* Sika Grout 214 has been tested as per SCAQMD Rule 1168'
	Result VOC Content 0 g/L

## **Product Data**

Appearance / Colour	Grey Powder
Packaging	25 kg paper bags
Storage Conditions /	12 months from date of production if stored properly in unopened and undamaged
Shelf Life	original well sealed packing, protect from damp and high humidity conditions.

## **Technical Data**

recinical Data						
Base	Cement, sele	Cement, selected fillers & aggregates and special additives				
Density (at 20° C)	approx. 2.2 kg	approx. 2.2 kg/l (of the fresh mortar)				
Setting Time (at 20° C)		<u>Plastic</u>	Flowable			
ASTM-C-191-95	Initial Set	1.40 hrs	5.00 hrs			
	Final Set	3.10 hrs	8.30 hrs			



Constructio

Mechanical / Physical Properties						
Compressive Strength	Test Sample		Cons	istency		
$(kg/cm^2)$	Age in days		Plastic		Fluid	
(EN 196 – 1 Din 1164/7)	1		300		250	
(Moulds / Prisms	3		400		380	
4cm x 4cm x 16cm)	7	_	430		410	
	28	5	50 - 600		550	
Flexural Strength						
(kg/cm <sup>2</sup> )	Test Sample			istency		
(ASTM-C-348-95)	Age in days		Plastic		Fluid	
	7		33.5		43 118	
	28		110.5		118	
Pull out Strength						
(kg/cm <sup>2</sup> )	Test Sample Fluid Consistency					
	Age in hrs	То	ore steel		Smooth Steel	
	24		55		20	
	28		110		40	
	Note: Sikagrout®	-214 steel ad	herence values in	plastic cor	nsistencv are equ	al to
	greater than the	above values.		•		
Adding Fillers	For large scale	grouting pro	ojects, silica sano	d and gra	avel can be ad	ded
	Sikagrout <sup>®</sup> -214,	where the add	led aggregate mus	st be clear	n and properly gra	ided.
	Evample: 12.5 k	a of sand ar	aded 1-10 mm to	one 25 kr	n had of Sikarout	+® つ
	mixed with 3.5	– 4 lts. of w	ater, yield a grou	ut with the	e following appro	xim
	mechanical stren		ator, jiela a grot		e ienetinig appie	
	Test Sample		ssive Strength	F	-lexural Strength	
	Age in days	()	(g/cm <sup>2</sup> )		(kg/cm <sup>2</sup> )	
	1		250		-	
	7 28		360 580		40 114	
		5 kg of sand p	er bag (Sikagrout®	-214 : sar		t)
	2011010/00000 20	o ng or oarra p	e sag (enagieat			•)
	Note: Expansion	decreases wh	en the proportion o	of sand ad	ded increase.	
Surface Preparation	The substrate mu	ust be properly	/ prepared and free	e of dust a	and grease. Remo	ove a
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Sikagrout <sup>®</sup> -214 is always added to the pre-measured gauging water. Volume of water must always be within the limits as stated in our Technical Data
Sheet. Excess water, will cause cracks, segregation and low grout strengths. Sikagrout <sup>®</sup> -214 should be left to stand after final mixing, for 5 minutes, allowing any entrapped air to dispel.
To take full advantage of Sikagrout <sup>®</sup> -214 expansion properties. Sikagrout <sup>®</sup> -214 should be poured /placed as soon as possible from 5 minutes standing, up to 30 minutes from mixing
Pour grout immediately after mixing. Ensure that air displaced by the mortar can easily escape; otherwise entrapped air will prevent full contact grouting. Wet porous substrates to saturated surface dry condition.
When grouting base plates etc., ensure that a continuous and sufficient head of pressure is maintained to keep the grout flowing.
To make optimum use of the products expansion properties, apply the grout as quickly as possible (within max. 15 minutes).
Clean all tools and application equipment with water immediately after use. Hardened/cured material can only be mechanically removed.
After placement of Sikagrout <sup>®</sup> -214, exposed surface area's to be fully cured for a minimum period of 3 days from achieving its initial setting: Or directly bleeding water have evaporated. Sika Antisol <sup>®</sup> - E curing compound may also be used to ensure ultimate curing.

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Safaty Processitions

Safety Precautions			
-	Wear gloves and goggles.		
	In contact with eyes or skin product may cause skin irritation.		
Ecology	Residues of material must be removed according to local regulations.		
	Fully cured material can be disposed of as household waste under agreement with		
	the responsible local authorities.		
Toxicity	Non-Toxic under relevant health and safety codes.		
Transport	Non-hazardous		
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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