

Sikagrout® -200

High strength, Non-shrink, None oxidized
Cementitious Grout

Product Description	Sikagrout® -200 is a ready to use non-shrinkage cement-based grout containing: Blended high performance cements and fillers. Selected oven dried quartz aggregates. Shrinkage compensating powders, when mixed with water produces a fluid grey colored grout (similar to concrete colour).
Uses	Sikagrout® -200 is used in the following applications: Grouting of steel column base plates. General anchor bolt and dowel fixation. Grouting for pre-fabricated elements, pre-stressed concretes. Grouting of general industrial equipments. Bridge bearing pads and beams.
Advantages	Sikagrout® -200 castable mortars are economical and easy to use material. They Offer the following beneficial properties: Contains no metal particles, consequently it does not oxidize in high humidity. Chloride free, with its high alkaline ph. It will protect metals from corrosion. It has good ultimate strength both in flowable and plastic grade. It has excellent flexural, resistance. It adheres to concrete, mortars, stone, steel, iron etc... It may be pumped, injected, vibrated or compacted. Stable in high humidity and temperature variations. Resistant to water and oil penetration. Rapid strength development reduces down time requirements for fast track projects.
Compliance standards	Sikagrout® -200 complies to the outline of ASTM-C-1107 Grade A, for a single stage Non-shrink expansion grout and CRD-C-621 expansion percent E.N. standards and DIN standards for compressive and flexural strengths.
Test Reports	Tested and approved by the National Organization for potable water & sanitary drainage for contact with potable water and sewage. * Sika Grout 200 has been tested as per SCAQMD Rule 1168' Result VOC Content 0 g/L

Product Data

Form	Powder
Colour	Grey
Packaging	25 kg bags
Storage	Store in dry condition.
Shelf life	12 months from production date

Technical Data

Density	2 - 2.1 kg/litre	
Compressive Strengths (EN 196 – 1 Din 1164/7) (Moulds / Prisms 4cm x 4cm x 16cm)	Flowable grade	Plastic grade
	1 day = 18 N/mm ²	21 N/mm ²
	3 days = 39 N/mm ²	43 N/mm ²
	7 days = 43 N/mm ²	46 N/mm ²
Flexural Strength (ASTM-C-348-95)	28 days = 45-50 N/mm ²	50 N/mm ²
	28 days = 10 N/mm ²	11.5 N/mm ²
Setting time ASTM-C-191-95	Initial 7.45 Hrs.	6.15 Hrs.
	Final 9.00 Hrs.	7.30 Hrs.

The above test results are based on I.S.O. Laboratory conditions at 20-23°C ambient R.H. 60 to 65%.



Application							
Workability grades	<table border="0"> <tr> <td>Flowable Grade</td> <td>Plastic Grade</td> </tr> <tr> <td>3.0 – 3.25 liter water</td> <td>2.75 – 3.0 liter water</td> </tr> <tr> <td>25 kg Powder</td> <td>25 kg Powder</td> </tr> </table>	Flowable Grade	Plastic Grade	3.0 – 3.25 liter water	2.75 – 3.0 liter water	25 kg Powder	25 kg Powder
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Fillers + Aggregates	<p>Sikagrout® -200 for large cavities grouting projects. Silica sand and gravel may be added, provided that aggregates are clean (washed) and properly graded. Example: 12.5 kg of sand graded to 8 mm or maximum 10 mm to one 25 kg bag of Sikagrout® -200, blended with 4 to 4.50 liters of gauging water (approx.).</p>						
Precaution	<p>Do not exceed 25 kg of graded aggregates per 25 kg bag of Sikagrout® -200. Note expansion and flowing properties decrease when adding graded aggregates.</p>						
Application Data	<p>Minimum application temperature + 5°C. The substrate to be properly prepared and free of all loose particles, oils and grease. Chipping and or whip sand blasting is preferred. Concrete substrates should be pre-soaked with water from 12 hours prior to Sikagrout® -200 application (surface saturated dry condition). This is extremely important during Hot Weather Application. After placement of Sikagrout® -200, 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® - E curing compound may also be used to ensure ultimate curing. For anchoring dowels and bolts the minimum annular space around the shaft is three times, the diameter of the largest grains in the mortar mix.</p>						
Mixing Procedure	<p>The mixing should be mechanically. Pour 2/3rd of the gauging water into the mixing pail. Gradually adding Sikagrout® -200, continue mixing until lump free and smooth consistency is achieved, add the balance of the gauging water, mixing for a further 2 to 3 minutes. Recommended to use either low speed (max. 500 rpm) electric drill with a basket type mixing paddle or forced action – or stand type mixers.</p>						
Pre-cautions	<p>Sikagrout® -200 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. Hand mixing of Sikagrout® -200 is not recommended. Sikagrout® -200 should be left to stand after final mixing, for 5 minutes, allowing any entrapped air to dispel. To take full advantage of Sikagrout® -200 expansion properties. Sikagrout® -200 should be poured /placed as soon as possible from 5 minutes standing, up to 30 minutes from mixing.</p>						
Safety Instructions							
Ecology	Do not dispose of into water or soil but according to local rules and regulations.						
Transport	Non-hazardous.						
Safety precautions	<p>Wear gloves, coveralls and goggles during handling. Sikagrout® -200 contains cements of high alkalinity which could affect people with sensitive skin. Always wash your hands with soap and water after use.</p>						
Toxicity	Non-Toxic when fully cured.						
Legal notes	<p>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.</p>						



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