

BUILDING PRODUCT INFORMATION SHEET

SikaGrout[®]-215 NZ

High strength, shrinkage compensated, pourable cementitious grout

DESCRIPTION

SikaGrout[®]-215 NZ is a cementitious grout containing a carefully formulated blend of natural aggregates and other materials, plus Sika admixtures which enable it to achieve high early age strengths. SikaGrout[®]-215 NZ has been designed to incorporate a two-stage process that counteracts the effects of shrinkage often associated with cement based grouts. These special materials provide positive expansion in the plastic phase and shrinkage compensation once hardened. SikaGrout[®]-215 NZ is normally used in details where the material can be confined and restrained during placement and curing to optimise these characteristics. SikaGrout[®]-215 NZ is a one component grout and only requires the addition of clean, fresh water.

USES

SikaGrout[®]-215 NZ contains very fine natural aggregates. It is used as a high flow grout where dimensions are minimal. Typical applications for SikaGrout[®]-215 NZ are:

- For gaps 2 mm to 80 mm
- Grouting under base plates, tanks, etc., where dimensions are minimal
- Grouting around pipe sleeves and liners
- Grouting of rock anchors, tensioning cables, etc.
- As the grout in pre-packed aggregate repair systems

SikaGrout[®]-215 NZ can also be used for:

- Grouts for anchor bolts, ground anchors, rods, etc.
- Reinforcement ducts in the connection detail between precast columns and beams

LIMITATIONS OF USE

Specialist structural grouting applications such as "Drossbach" connections, ground anchors, under machine bases, etc, must be carried out by contractors who are trained and have proven experience in this type of work

This product cannot be used as an adhesive for the bonding of post installed reinforcing bars or anchors such as holding down bolts, threaded rods, etc into concrete, or other substrates where there is a requirement for NZBC compliance.

FEATURES

SikaGrout[®]-215 NZ offers the following advantages:

- Positive shrinkage compensation
- High early age strength development
- High final strengths
- Excellent substrate adhesion
- Adjustable consistency
- High flow characteristics
- Ideal for use in pre-packed aggregate systems of repair
- Increased resistance to aggressive liquid penetration when hardened

PRODUCT INFORMATION

Product identifier	SikaGrout [®] -215 NZ
Place of manufacture	Aotearoa New Zealand
Packaging	25 kg bag
Shelf life	Six (6) months from date of manufacture when stored as stated.
Storage conditions	Store in unopened, original containers, free from frost and below +25°C.
Appearance and colour	Grey powder
Density	~ 2.1 kg/litre

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TECHNICAL INFORMATION

Compressive strength	24 hours	20 MPa	(EN 196-1)
	7 days	50 MPa	
	28 days	60 MPa	

MANUFACTURER AND IMPORTER INFORMATION

Manufacturer information	Address	Sika (NZ) Limited 85-91 Patiki Road Avondale, Auckland 1026 New Zealand
	Phone number	0800 745 269
	Website	https://nzl.sika.com/
	Email address	info@nz.sika.com
	NZBN	9429000018791

BUILDING CODE INFORMATION

Building Code clauses	B1 Structure: Performance Clauses B1.3.1, B1.3.2, B1.3.3 (a, b, d, e, f, g, h, j, q)) B1.3.4 B2 Durability: Performance clause B2.3.1-(a) not less than 50 years F2 Hazardous Building Materials: Performance clause F2.3.1
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Building Code compliance statements	<p>Performance B1.3.1, B1.3.2, B1.3.3 (a, b, d, e, f, g, h, j, q)) B1.3.4: This SikaGrout product has been evaluated in accordance with a B1/VM1 compliance method. When used as a grout in "Drossbach" ducts, which have been cast into precast concrete elements; and the connection has been designed by a suitability qualified structural engineer, in accordance with the lap-splice provisions of NZS3101:2006, and the guidance provided by SESOC in the document "Precast Concrete - Grouted Connections and Drossbachs - SESOC Guidance", it contributes to meeting the preceding B1 Structure performance clauses</p> <p>Performance B2.3.1 (a) 50 years: This product has been evaluated in accordance with B2/VM1. It meets this durability requirement and will remain serviceable for 50 years, or more, when installed and maintained in accordance with the relevant Sika technical literature. nzl.sika.com. According to Sika's "Service Improvement" records, maintained within its ISO9001:2015 Quality Management System, this product has performed successfully since it was introduced in 1998.</p> <p>Performance F2.3.1: This product meets this requirement when used and applied in accordance with Sika's installation instructions and does not present a health hazard to people occupying or using the building. Refer to the Sika Product Technical Data sheet and product Safety Data Sheet nzl.sika.com for further information if required</p>
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APPLICATION INFORMATION

Mixing ratio	Maximum water content: 6.0 litres/25 kg bag
Yield	As a pourable grout (approx.): 25 kg = 15 litres when mixed with 6 litres of water.
Flowability	CRD Cone Flow times (approx.) at high flow condition: 30 seconds

BASIS OF PRODUCT DATA

All technical data in this document are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

IMPORTANT CONSIDERATIONS

- For further information on pre-packed aggregate repairs contact the Sika Technical Department.
- Large volumes of cement rich grout can generate excessive amounts of heat whilst hardening as a result of the cement hydration process. This heat build up may in some cases lead to thermal cracking within the grout as it cools down. For ap-

plications requiring larger volumes it is recommended that our high strength, flowing micro concrete, Sika MonoTop®-438 R (refer separate data sheet) be used.

- For concrete repairs refer to the Sika® MonoTop® Range.

ECOLOGY, HEALTH AND SAFETY

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

APPLICATION INSTRUCTIONS

DESIGN REQUIREMENTS

When this product is using as a grout for filling the cavity in reinforcing steel lap-splice connections such as "Drossbach" ducting, or similar connections cast into concrete elements, the connection detail must be designed and approved by a registered structural engineer.

SUBSTRATE PREPARATION

Surface Preparation:

- Concrete surfaces should be clean, sound and free from dust, oils, grease, loosely adhering particles or any other surface contaminants that will affect bond.
- The surface must be scabbled or sandblasted to remove all weak cement laitance.
- Dry concrete substrates shall be saturated with water for some time, and the surface allowed to dry (to achieve what is referred to as a 'saturated surface dry' condition) before grouting commences.
- Metal surfaces (iron and steel) should be free from rust, scale, oil, grease, etc.

Formwork Preparation:

- Formwork must be constructed to prevent any leakage of the plastic grout.
- Formwork should be constructed in such a manner as to ensure that a minimum horizontal surface area is left exposed. The formwork must be able to rigidly confine the grout during its expansion process.
- When grouting under base plates, etc, formwork should be constructed to ensure that a head of grout higher than the level of the base plate is maintained. This will provide a constant full flow of grout under the base plate to avoid the occurrence of air entrapment under the plate.
- When filling any detail ensure that an adequate volume of mixed grout is available to allow for a continuous and uninterrupted flow.
- In areas of formwork where air pockets may occur it is necessary to install bleed tubes or openings that will allow entrapped air to escape.
- When providing formwork for pre-packed aggregate repairs the forms may need to be built up in layers to allow for the aggregate to be packed into the cavity.

- In many cases it may be necessary to install grouting tubes or pipes that enable the cavity to be filled from bottom to top. This will force any air upwards and help to eliminate the possibility of air locks being formed.
- Ensure that all formwork has been thoroughly treated with a suitable mould release agent.
- Flush out all forms with clean, fresh water prior to grout placement

MIXING

Application temp: +5°C to +25°C. Pour the required amount of clean, fresh water into a suitable mixing container and slowly add all of the powder while mixing continuously with a Sika mixing paddle attached to a low speed electric drill (max. 500 rpm). Mix for 2-3 minutes until a smooth, lump free consistency is achieved.

APPLICATION

Grout should be placed into forms immediately after mixing, taking care to ensure no air is trapped.

CURING TREATMENT

Formwork should be left in place for at least 5 days if possible, to prevent moisture evaporation and provide restraint to early age hardened expansion. Once formwork is removed the use of a suitable curing membrane such as Sika Antisol® should be applied to any exposed faces. Refer to separate data sheet for further information.

CLEANING OF EQUIPMENT

Clean all tools and equipment with water immediately after use. Hardened SikaGrout®-215 NZ can only be removed mechanically.

MAINTENANCE REQUIREMENTS

The maintenance requirements for this Sika product are the same as for the host / surrounding substrate

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

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

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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. It may be necessary to adapt the above dis-

claimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

The building product/building product line is not subject to warning or ban under section 26 of the Building Act 2004.

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