

PRODUCT DATA SHEET

Sika® Rokkon C

CEMENTITIOUS CARTRIDGE FOR ROCK BOLTING

DESCRIPTION

Sika® Rokkon C is available in cartridge form enclosed in a water permeable membrane and protected by a polyethylene cover.

At the time of application, take the cartridge out of the polyethylene cover and put it in water, allowing enough water through the membrane to form a non-shrink, thixotropic cementitious grout.

Additives in the grout ensure controlled expansion to stabilize the grout and control the water uptake to provide an optimum w/c ratio for high early strengths. The overall cohesiveness of the grout enables it to be used in wet conditions, even in flowing water without excessive grout washout.

USES

Sika® Rokkon C is used for grouting rockbolts for strata reinforcement in tunneling and mining to reduce roof collapses.

CHARACTERISTICS / ADVANTAGES

- Sika® Rokkon C will provide the following benefits:
- Reliability: Laboratory tested pre-packed materials avoid risks of unpropered grout mixing & placing.
 - Non shrink: controlled expansion counteracts shrinkage to provide effective contact with rock
 - Chloride free: develops early strength without the use of chloride and makes it safe to use with embedded steel.
 - Encapsulated: minimizes grout loss from overhead holes or under conditions of running water.

PRODUCT INFORMATION

Packaging	50 cartridges per box	
	Cartridge nominal diameter	30 mm, 40 mm (standard), other diameters on request
	Cartridge nominal length	300 mm (standard), other lengths on request
Shelf life	6 months from date of manufacture if kept in unopened original packaging.	
Storage conditions	To be kept in dry place. Unused Sika® Rokkon C to be kept in their original polyethylene cover to avoid exposure to atmosphere.	

TECHNICAL INFORMATION

Compressive Strength	3 hours	~15 N/mm ²
	1 day	~30 N/mm ²
	3 days	~40 N/mm ²
	28 days	~50 N/mm ²
	Water/Powder ratio : 0.28 (at 30 °C)	
Temperature Resistance	The hardened grouts are non flammable and will remains reliable up to a 200 °C temperature.	

APPLICATION INFORMATION

Mixing Ratio

Water : Powder = 28 : 100 by weight

APPLICATION INSTRUCTIONS

APPLICATION METHOD / TOOLS

Borehole must be drilled to specified depth using either a rotary or a percussive drilling machine and the hole must be checked to ensure that it is clean and free of obstruction; the number of Sika® Rokkon C needed should be taken out of their polyethylene package and put in a trough of water.

The Sika® Rokkon C needs to be soaked for at least 1 minute to allow sufficient water uptake. It may be need to be soaked for longer if signs of air release (bubbling from the cartridges) are still there. When the wetting out process is complete, the Sika® Rokkon C is to be taken out of the water and inserted into the drilled hole.

The cartridge must be put to the end of the hole and put in position by a stemming rod or some such instrument; all the Sika® Rokkon C cartridges are to be inserted in the same way and without delay, the rockbolt has to be pushed into the hole as far as it would go and if required, an air auger (150 – 400 rpm) or a leg drill may be used to push it to the bottom of the hole.

BASIS OF PRODUCT DATA

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

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.

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.

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.

PT. Sika Indonesia Head Office and

Jl. Raya Cibinong-Bekasi Km.20

Limusnunggal-Cileungsi

Bogor 16820-Indonesia

Tel. +62 21 8230025, Fax +62 21 8230026

Web: idn.sika.com

Email: sikacare@id.sika.com



Product Data Sheet

Sika® Rokkon C

September 2016, Version 01.01

020205010040000001

SikaRokkonC-en-ID-(09-2016)-1-1.pdf