

Sika® Rokkon C VN

Cementitious cartridge for rock bolting

Description	<p>Sika® Rokkon C VN is available in cartridge form enclosed in a water permeable membrane and protected by a polyethylene cover.</p> <p>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 nonshrink, 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.</p>
Uses	<p>Sika® Rokkon C VN is used for grouting rockbolts for strata reinforcement in tunneling and mining to reduce roof collapses.</p>
Advantages	<p>Sika® Rokkon C VN will provide the following benefits:</p> <ul style="list-style-type: none"> ■ Reliability: laboratory tested pre-packed materials avoid risks of improper 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.
Application	<p>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 VN needed should be taken out of their polyethylene package and put in a trough of water. The Sika® Rokkon C VN 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 VN 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 VN 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.</p>
Product data	
Cartridge nominal diameter	35 mm, 38 mm (standard), other diameters on request
Cartridge nominal length	300 mm (standard), other lengths on request.



Packaging	20 cartridges per box
Shelf life	Six months from date of manufacture if kept in unopened original packaging.
Storage	To be kept in dry place. Unused Sika® Rokkon (C-VN) to be kept in their original polyethylene cover to avoid exposure to atmosphere.

Technical data

Minimum water soak time	1 minute
Maximum water soak time	3 minutes
Compressive strength of Sika Rokkon (C VN) (at 30°C)	Water/Powder ratio : 0.28 3 hour: > 15 MPa ASTM C-349/ C109
Effect of temperature	The hardened grouts are non flammable and will remains reliable up to a 200°C temperature.
Sika anchoring products range	Summary of Sika products system (cementitious base) for rock bolting purpose.

Type	Anchor type	Ready to use	Site mix
Fast	Pre-grouted	Sika® Rokkon C VN	Not applicable
		Sika® Rokkon Grout	
Fast	Post-grouted	Sika® Rokkon Grout	Please consult Sika
Normal	Pre-grouted	Sika® Rock Anchor SN	Intraplast® Z HV
		Sika® Rock Anchor SN-CT	
Normal	Post-grouted IBO type	SikaGrout® -212-11	Intraplast® Z HV
		Sika® Rock Anchor® IBO	

Health and safety information

Ecology	Do not dispose into waterlines.
Transportation class	Non hazardous.
Waste disposal	According to local law.
Important notes	<p>Sika® Rokkon C VN is hygroscopic. Sika® Rokkon C VN is cement base therefore is alkaline. Use rubber gloves when working with Sika Rokkon C VN. If Sika® Rokkon C VN gets into eyes, clean out immediately with fresh water.</p> <p>The strength values mentioned are average values of laboratory tests. The results on the site may vary due to different environment, curing conditions and testing.</p> <p>Trials should be always conducted before application.</p> <p>Always refer to the latest updated product data sheet.</p>

Disclaimer

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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