

PRODUCT DATA SHEET

Rokkon[®]-1

CEMENTITIOUS CAPSULE FOR ROCK STABILISATION

DESCRIPTION

Rokkon[®]-1 is available in sausage form enclosed in perforated plastic pouch. At the time of application, the capsule is put in water, allowing enough water to percolate in through the perforations to form a non-shrink, thixotropic cementitious grout. Special additives in the formulation ensure controlled expansion to stabilise the grout and control the water uptake to provide an optimum w/c ratio.

USES

Rokkon[®]-1 is used for grouting rock bolts for strata reinforcement in tunnelling and mining to reduce roof collapses.

CHARACTERISTICS / ADVANTAGES

- Reliability : laboratory tested pre-packed materials remove all problems of controlling grout mixing underground thereby reducing any risk in constructing a fully column grouted bolt
- 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
- Thixotropic : minimises grout loss from overhead holes

PRODUCT INFORMATION

Chemical Base	Special Cement
Packaging	25 mm dia x 300 mm length (100 pcs in a box) 32 mm dia x 300 mm length (75 pcs in a box) 40 mm dia x 300 mm length (12 pcs in a box)
Colour	Grey powder encapsulated in perforated plastic pouch
Shelf Life	6 months from date of production
Storage Conditions	Store properly in dry condition in undamaged and unopened original sealed packaging.

TECHNICAL INFORMATION

Compressive Strength	1 day	≥ 11 N/mm ²	(ASTM C 109)
	7 days	≥ 18 N/mm ²	
	28 days	≥ 27 N/mm ²	
Curing Time	Initial setting time	3-8 minutes	
	Final setting time	10-20 minutes	
At +30°C			

APPLICATION INSTRUCTIONS

MIXING

Minimum water soaking time	3 minutes
Maximum water soaking time	4 minutes

APPLICATION METHOD / TOOLS

- Using the correct bit diameter, the holes should be drilled to the recommended depth using a rotary percussive machine; bore holes prior to insertion of Rokkon®-1 capsules should preferably be cleaned with compressed air to ensure total elimination of foreign particles, rock dust or water that may otherwise remain inside the bore hole.
- The number of Rokkon®-1 needed should be taken out of their package and put in a trough of water. The Rokkon®-1 needs to be soaked for at least 3 minutes to allow sufficient water uptake. It may need to be soaked for longer if signs of air release (bubbling from the cartridges) are still there. The capsules are to be taken out of the water and inserted into the drilled hole. The capsules must be pushed to the end of the hole and put in position by a stemming rod or some such instrument. All the capsules are to be inserted in the same way. The rock bolt has to be pushed into the hole as far as it would go.

LIMITATIONS

Capsules should not be inserted in the borehole in running water condition

BASIS OF PRODUCT DATA

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

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

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

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Sika India Pvt. Ltd.
620, Diamond Harbour Road
Commercial Complex II
Kolkata - 700 034
Tel : +91 33 24472448
Fax : +91 33 23978688
Mail : info.india@in.sika.com



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