



ROKSO REZON

PRODUCT CODE : 804

POLYESTER RESIN BASED CAPSULE FOR ROCK STABILISATION

DESCRIPTION

Each ROKSO REZON resin capsule is a two-compartment capsule that consists of a tube of polyester film clipped at both ends. One compartment contains resin, the other contains catalyst.

The ROKSO REZON resin compound is thixotropic and fast setting. This reduces viscosity during insertion of the bolts thus requiring relatively low force and torque. The uniquely size graded fillers assist with shredding of the film, mixing of the resin and, by interlocking with each other and the side walls of the hole, further increasing stiffness.

USES

ROKSO REZON resin capsules are used to anchor rock bolts and long tendons for roof support in mines and tunnels. They can be used with hydraulic and pneumatic type bolters.

ADVANTAGES

- Rapid anchoring of the bolt to the surrounding strata.
- High load transfers achievable almost immediately.
- Full column bonded bolts strongly resist the horizontal and lateral strata movements associated with convergence.
- Provides strength and rigidity to prevent sag by acting as a reinforcement that clamps the individual strata layers into a single high strength beam.
- Effectively seals wet, dripping holes and in most cases eliminates deterioration of the hole and surrounding strata unaffected by sea or fresh water, mild acids or mild alkalis.
- Resistant to anchoring failure caused by blasting or vibration.
- Easy to install.

TECHNICAL DATA

Form	Viscous Paste
Colour	Brownish Yellow
Setting Time	1-2 min at 22°C
Pull out load	100 MT/ running meter
Compressive Strength	50 N/mm ² in one hour (at 22° C)
Pullout bond strength	20 N/mm ²

CAPSULE DIMENSIONS

Standard ROKSO REZON capsule diameters include 23mm, 25mm, 28mm, 30mm, 32mm. Stock capsule lengths vary, please consult one of our Orica representatives for our standard length and diameter combinations. When calculating the volume of resin required to give the desired length of resin bond, increase requirements by 12% to allow for over drilling.

Diameters (mm)		Caps Dia	Caps Length	Caps Vol)	Caps Box
Hole	Bolt	(mm)	(mm)	(cm ³)	
25-28	20	23	500	208	50
27-32	20	25	400	196	40
28-32	20	25	450	221	40
29-32	20	25	500	245	40
30-36	25	28	500	308	28
34-40	25	32	400	321	25

METHOD OF APPLICATION

SUBSTRATE QUALITY

The holes should be drilled to the recommended depth using a rotary percussive machine. The bore holes prior to insertion of ROKSO REZON resin 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

APPLICATION INSTRUCTIONS

1. Insert the necessary resin capsules into the hole.
2. Push the bolt up the hole to at least 300mm from the collar. (Rotation of the bolt during this step is optional)
3. Rotary drills: rotate the bolt rapidly (250-750rpm) for the specified mixing time, while pushing the bolt home. Percussion drills: rotate the bolt 40-60 revolutions.
4. Hold for the required time (note effect of temperature on set times).
5. Do not rotate again as damage to partially gelled resin may result. The period of strength development following set will vary, depending on set time and product temperature. The bolt may be tensioned after the required hold time.
6. Resin bolts should be installed as soon as possible in a newly exposed roof.

NOTES ON APPLICATION /LIMITATIONS

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

HEALTH AND SAFETY

- Wear suitable protective clothing, gloves and eye/face protection.
- In case of contact with skin remove contaminated clothing and wash with soap and water, seek medical attention if skin irritation persists.
- In case of contact with eyes, flush with copious amounts of water and seek medical assistance.
- If inhaled remove from exposure and seek medical advice if effects persists.
- If ingested wash out mouth with water and obtain medical attention.
- Do not use in the vicinity of open flames, electric sparks, welding, cutting or any other source of ignition.
- See Material Safety Data Sheet for flammability and toxicity.

SHELF LIFE

The ROKSO REZON resin capsule shelf life is 4 months for capsules longer than 600mm and 6 months for capsules 600mm and shorter when stored at 20°C. Storage at lower temperatures such as cool rooms is highly recommended and will extend the shelf life when stored at 0-5°C. Stock rotation is essential.

Storage Conditions-

Store in a cool, dry place away from direct sunlight. Do not double stack pallets. When using cool room storage the resin capsules should be allowed time to attain ambient temperature before use; otherwise **Spin and Hold times will be affected.**



**Manufactured in INDIA by
ROKSO INDIA PRIVATE LIMITED**

AN ISO 9001 : 2008 CERTIFIED COMPANY

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