

Lokset® Resin Bolting

Background

The history of the development of resin anchors is well documented and the use of resin capsules is now a well-accepted practice in mine roof control. Resin Bolting is now becoming more widely adopted throughout Australia's metalliferous mines.

Modern high productivity mining is striving for uninterrupted cost effective and production. Consequently the move towards a "single-pass" bolting system is considered to be vital for the efficient operation of many mines. In parallel, the demands on the capsule performance increases. Set time, strength gain, consistency and reliability are amongst the key characteristics being measured as vital. This has been complemented by a greater awareness of rock mechanics parameters and the "customised" product is more and more designed as part of the overall system for the mine support plan.

Minova has manufactured Lokset resin capsules since the late 1960's and has been a leading supplier and innovator in this field over the past three decades. It numbers over 50 variants in its worldwide range of resin capsules. All are founded on a sound technology base but also a creative response to increasing demands.

Advantages

- Full column bond or point anchor as required.
- Able to take load immediately due to extremely rapid strength gain.



- Protects bolt from corrosion, resin bond unaffected by aggressive ground water (eg acidic, alkaline, saline). Support is permanent.
- Single pass system, no post grouting required, no mixing or pumping equipment needed.
- Bolt can usually be tensioned.
- High modulus and strength stiff system when fully encapsulated.
- Rapid insertion, easy and quick to use.
- Superior confinement and clamping action on strata.
- Vibration resistance, anchors are unaffected by vibrations even from close proximity blasting.
- No expansion stresses –used in weak strata.
- Assured product performance through manufacture under strict quality control.

Description

The Lokset resin capsule consists of a reinforced, polyester resin mastic in one compartment and an organic peroxide catalyst separated by a physical barrier in the other. The rotation of the bolt during installation ruptures the capsule, shreds the skin and mixes the two components causing a chemical



reaction and transforming the resin mastic into a solid anchor.

Insertion Methods

Various methods of inserting the resin capsules in the bolt hole are available:

- Tamrock Robolter pneumatic
- Atlas Copco Boltec pneumatic
- Jumbo boom via basket-hand
- Jumbo boom via pneumatic installer
- Jumbo boom via mechanical installer
- Via a sleeve attached to a Jumbolt
- —QUICK-CHEM installation system

Customers in the Australian metalliferous sector

- Mt Isa Mines
- Lead Mine
- George Fisher Mine
- Ridgeway Project Cadia
- Stawell
- Darlot
- Silver Swan
- Telfer
- Cannington
- Osbourne
- North Parkes
- Kundana

Technical Support

Minova Australia, together with your local distributor offer a complete technical and field

support service.

Additional Information

For further information see 'Lokset Resin Capsule' and 'TOOSPEEDIE' Product Data Sheets.

Disclaimer

All information contained in this document is provided for informational purposes only and is subject to change without notice. Since Minova cannot anticipate or control the conditions under which this information and its products may be used, each user should review the information in the specific context of the intended application. To the maximum extent permitted by law, Minova specifically disclaims all warranties express or implied in law, including accuracy, noninfringement, and implied warranties of merchantability or fitness for a particular purpose. Minova specifically disclaims, and will not be responsible for, any liability or damages resulting from the use or reliance upon the information in this document.

The Minova Logo is a registered trademark.
© 2018 Minova Australia Pty Ltd
® Registered trademark of Minova International Limited

NEW SOUTH WALES

QUEENSLAND

SOUTH AUSTRALIA

Kurri Kurri Smithfield

Nowra

Mackay Adelaide

WESTERN AUSTRALIA

Perth

Customer Service:

1800 Minova / 1800 646 682 (free call within Australia) 1300 Minova / 1300 646 682 (local call Australia) 1300 FaxMinova / 1300 329 646

