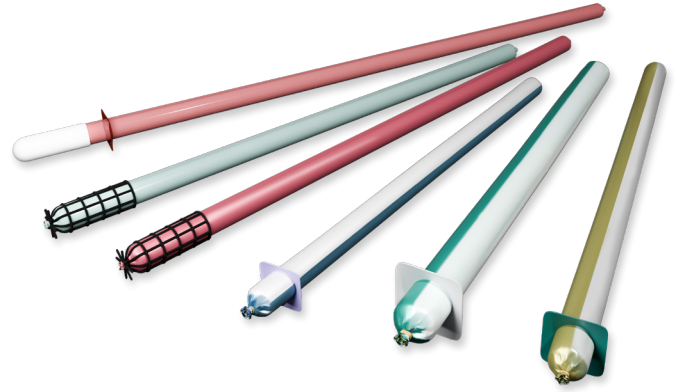


MINOVA

LOKSET™

RESIN CAPSULE

E SERIES



Lokset capsule colours and retainers may differ based on specification.

DESCRIPTION

The Lokset™ Resin Capsule E Series is intended for use in a 1-3/8 inch borehole with a #7 (7/8 inch) bolt. The Lokset Resin Capsule E Series include fully grouted rebar, tension rebar, doweling and resin enhanced mechanical anchors.

In most applications, Lokset Resin Capsules can enhance the performance of your current roof control system. The Lokset Resin Capsule E Series consists of two compartments separated by a physical barrier. One compartment contains a polyester resin mastic and the other an organic peroxide catalyst. The rotation of the bolt during installation ruptures the capsule, shreds the film and mixes the two components, thus causing a chemical reaction which transforms the resin mastic to a solid anchor.

The E Series Capsule is 32mm or 1-1/4 inches in diameter. The combination of capsule and bolt has been proven effective in difficult roof conditions.

The E Series Capsule is available in lengths ranging from one to seven grouted feet. The capsule is also available in a variety of speeds including: Super Slow (1530), X-Slow (0510), Slow (-90), Medium (-45), Fast (-35), X-Fast (-20) and Super-Fast (-10). A slow capsule gels in one minute at 90 degrees F (32.2 degrees C), medium gels in one minute at 45 degrees F (7.2 degrees C), etc. For more information, please refer to the Resin Usage Chart.

APPLICATIONS AND USES

- > Millions of Lokset Resin Capsules are used every year for permanent rock reinforcement in mines, tunnels and foundations.

ADVANTAGES

- > Proven – After introducing resin anchors to the United States (1971), Lokset Resin Capsules have a proven track record of success.
- > Speed – The fast-gelling Lokset Resin Capsules enable rapid installation to be carried out, with application of load in minutes.
- > Viscosity – The E series Lokset Resin Capsule is available in High, Medium, Low and Very Low Insertion Force (VLIF) viscosities. The VLIF formulation is unique in the industry and provides optimum performance with cable and mechanical assisted resin point anchor rock bolts.

APPLICATION METHOD

Contact your local Minova representative if the E Series Capsule is to be used in other applications.

1. Before use, read the installation and safety information provided to include the product Safety Data Sheet (SDS).
2. To obtain a consistent set time, make sure the Lokset™ Resin Capsule and bolt are at mine temperature before use.
3. Drill the borehole to the correct diameter at a depth equal to the length of the bolt plus 1-inch. Mark the drill steel to use as a guide.
4. Insert the appropriate Minova Resin Capsule slowly rotating the bolt as you push through resin column.
5. Push the bolt into the hole. Slow rotation of the bolt as it passes through the Capsule is suggested but not required. Ensure each Capsule is completely punctured. For tension rebar applications, rotation is not suggested during bolt insertion.
6. Just below the roof, stop and spin the bolt a minimum of 35 revolutions to mix the Capsule. This should take 3 to 8 seconds.
7. Stop rotation and push the bolt upward with full thrust until the resin sets.

SAFETY INSTRUCTIONS AND LIMITATIONS

Do not over-spin the bolt. If bolt rotation continues through the gel time, damage to the anchor may occur.

Never re-rotate the bolt. Bolt rotation after the final spin may damage the partially set resin.

Observe the usual precautionary measures for handling chemicals, see Lokset & Eclipse Resin Capsule SDS.

PACKAGING AND TRANSPORTATION

Product packaging is dependent upon capsule length. Please contact a Minova Customer Service Representative for packaging information.

STORAGE AND SHELF LIFE

Lokset Resin Capsules can be stored for 12 months in a cool dry, ventilated place. Store away from direct sunlight or other heat sources which can reduce products usability and shelf life. Stock rotation is strongly recommended.

DISPOSAL

If this product as supplied becomes a waste, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Dispose of material in accordance with all applicable federal, state/provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

MANUFACTURER

Minova USA Inc

An ISO 9001:2015

Quality Management Certified Company
Certificate No. FM 686583

Original Registration Date: 1995-02-15
Expiry Date: 2028-02-14



CUSTOMER SERVICE

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Hole Diameters	25mm 1"	32mm 1-1/4"	35mm 1-3/8"	38mm 1-1/2"	41mm 1-5/8"	38mm 1-1/2"	41mm 1-5/8"	45mm 1-3/4"	48mm 1-7/8"	51mm 2"	57mm 2-1/4"	51mm 2"	57mm 2-1/4"	
Capsule Diameter	23mm 7/8"	28mm 1-1/8"	32mm 1-1/4"			35mm 1-3/8"			40mm 1-9/16"			45mm 1-3/4"		
Bolt Size	Hole Length per Foot (12") of Resin // (Grouted Length of Bolt)													
#5 (5/8" Ø) B-Series	13.7	Not Recommended												
#6 (3/4" Ø) A-Series	19.1	12.4	Not Recommended											
#7 (7/8" Ø) E-Series		15.6	14.4	Not Recommended										
#8 (1" Ø)			18.2	13.0		15.5	11.8	Not Recommended						
#9 (1 1/8" Ø)				16.5	11.8	19.7	14.1	14.1	11.2	Not Recommended				
#10 (1 1/4" Ø)	Not Recommended				15.0		18.0	16.9	13.0	10.4		13.1		
#11 (1 3/8" Ø)	Not Recommended							23.0	16.0	12.0		15.2		
#14 (1 5/8" Ø)	Not Recommended										12.7		16.1	

RESIN USAGE CHART

Chart indicates inches of bolt encapsulation based on standard 12" length Lokset™ Resin Capsules for anchoring and grouting rock bolts. This chart is prepared as a guide based on average drilling conditions in concrete or rock. Field trials should be conducted to determine actual resin requirements. (Inches grouted data includes a calculated 15% loss, which is typical.) *Example: When a 1 1/2" hole is drilled using a 1" diameter deformed (rebar type) bolt, one 3512 (1 3/8: Ø x 12" long) capsule will grout 15.5 linear inches of bolt. Conduct field trials to ensure correct resin requirements for both anchor and grout "zones" for individual bolt lengths and diameters.

Note: Blank spaces are non-recommended bolt and hole combinations

DISCLAIMER

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