



Products **FASLOC**

- FASLOC[®] Resin Cartridges
- The FASLOC[®] Cartridges
- Advantages
- Performance Data
- General Installation Instructions
- Product Overview

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FASLOC[®] Resin Cartridges

Polyester resin anchoring system

General Installation Instructions

- The installation procedures should be followed carefully to ensure successful application of FASLOC[®] resin grouting.
- Various factors affect installation. These instructions are general guidelines. Mine tests must be conducted with bolts to determine actual "mix" and "hold" times.
- Bolts should be installed as soon as possible in newly-exposed roof. Roof that has shifted or sagged offers least chance for successful support.
- Do not use ruptured or broken cartridges.
- Refer to M.S.D. sheets and Product Bulletin for additional technical and safety data.

1. Insert necessary FASLOC[®] cartridges into the hole
2. Push the bolt into the hole to a point just below the roof line. Slow rotation of the bolt during insertion is optional
3. Rotate the bolt as indicated
4. *Fully Grouted Bolts*
Push the bolt upwards with the maximum thrust available from the machine and hold until FASLOC[®] hardens. Do not rotate after step 3. Damage to partially gelled resin may result.
5. *Tension Rebar & Combination Bolts*
Hold the bolt until the resin has hardened. This period of strength development will vary depending on gel time, product temp. and mine conditions. When resin has hardened, rotate the bolt until the desired torque is developed.
6. *Resin Point Anchor Bolts*
When FASLOC[®] is used to supplement mechanical shell anchors, spin-to-lock.

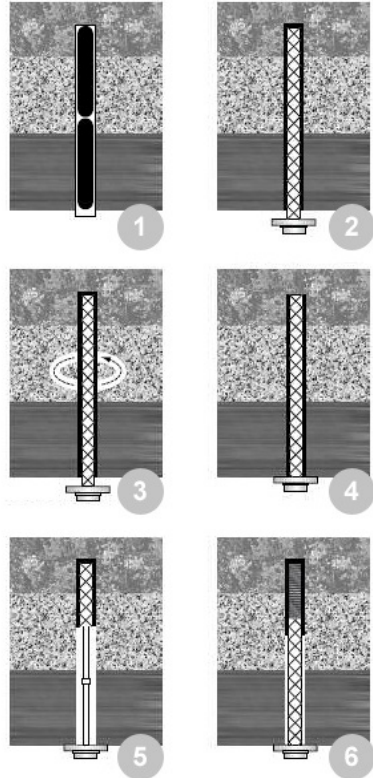
Safe Handling Precautions

Caution: Do not open or puncture cartridge. Physical contact with liquid contained in cartridge may cause mild irritation. Safety glasses or eye shield should always be used when roof bolting is done. In case of eye contact, immediately flush with plenty of water for at least 15 minutes. Call a physician.

In case of skin contact, flush skin with water. Prolonged contact with skin may cause mild irritation. Irritation should subside when material is removed.

For complete safety information, refer to the Material Safety Data Sheets. Copies will be furnished upon request.

Cartridges are filled with inert fillers, water, polyester resin and activator (active ingredients include low levels of styrene and modified benzoyl peroxide). FASLOC[®] cartridges are for industrial use only and are intended for use in conjunction with bolts. The relationship between hole dimensions, bolt size and the size and number of cartridges is critical to good performance. Your DSI representative will be glad to assist in determining the proper combinations for specific applications.



Uses

FASLOC[®] has been a leading supplier of polyester resin cartridges to the mining industry for over 30 years. FASLOC[®] resin cartridges allow for quick and reproducible anchoring of many varieties of bolts and cables. In mine roof support, FASLOC[®] systems reinforce strata, providing strength and rigidity in untensioned systems, and ensure a durable anchorage for FASLOC[®] resin grouted tensioned bolts. The reinforcement technique bonds the individual stratified layers of rock into a single, high strength beam. FASLOC[®] resin cartridge can also be used in many other reinforcement, stabilization, and anchoring applications. The reliability of the anchorage system, plus ease of use and minimal resin setting times, will increase productivity and safety.

Storage Recommendations

For maximum shelf life, FASLOC[®] cartridges should be stored away from direct sunlight in a reasonably cool, well-ventilated, dry area. Storage life is up to 1 year, depending on ambient temperature conditions. Under adverse conditions, shelf-life is

Advantages

The proprietary FASLOC[®] package has a distinct advantage over other resin systems due to:

- High catalyst/resin ratio
- Uniform installation time
- Mixing efficiency

Cartridge Diameters

Nominal diameters for both imperial and metric are available. Diameters are as follows:

Imperial	Metric
0.9"	23 mm
1"	25 mm
1-1/8"	28 mm
1-3/16"	30 mm
1-1/4"	32 mm

reduced. To ensure proper storage, the product should not be subjected to temperatures in excess of 85°F for prolonged periods. Storage is recommended under cover, on original pallets with adequate ventilation. If stored in trailers in hot weather, door should be left ajar or a sun screen erected over the trailer. Conversely, while cold storage does not adversely affect the shelf-life of FASLOC[®], it should be warmed to a range of 50°-60°F before using to assure gel times within the specified range (see Figure 2). The time required for cases of FASLOC[®] to warm or cool to ambient temperature is dependent on both the initial temperature and how the cases are stacked. Where the initial temperature is anywhere between 25° and 85°F, cases will come within 5° of ambient temperature in 48 hours when stacked in single columns with 4 sides of each case exposed to the air. Multiple columns should be separated by at least 2 inches to assist air circulation between columns.

1-3/8"	35 mm
1-9/16"	40 mm

Cartridge Lengths

Cartridges are available in lengths from 12" to 60".



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