

# Fasloc® Resin Cartridges

Fasloc® Resin Cartridges consist of a two compartment heat sealed tube of polyester film clipped at both ends. One compartment contains a dark grey or yellow resin mastic, the other an off-white or coloured catalyst.



The Fasloc® resin compound is thixotropic and fast setting. This reduces viscosity during insertion and permits relatively low force and torque. The uniquely sized graded fillers assist with shredding the film, mixing the resin and, by interlocking with each other and the sidewalls of the hole, further reduce strata movement. The results are fast installation, rapid achievement of full strength, and minimum tendency for ungelled resin to drop from the holes during installation.

## Product Range

- Standard products available in sizes from 23mm to 35mm diameter, and in lengths to suit the application
- Set times from 15 seconds to 10 minutes (at 20°C)
- High strength products available for specific applications
- Dual set time cartridges
- Spin-to-stall cartridges
- Non-standard products are available on specific request (subject to pre-testing prior to supply).

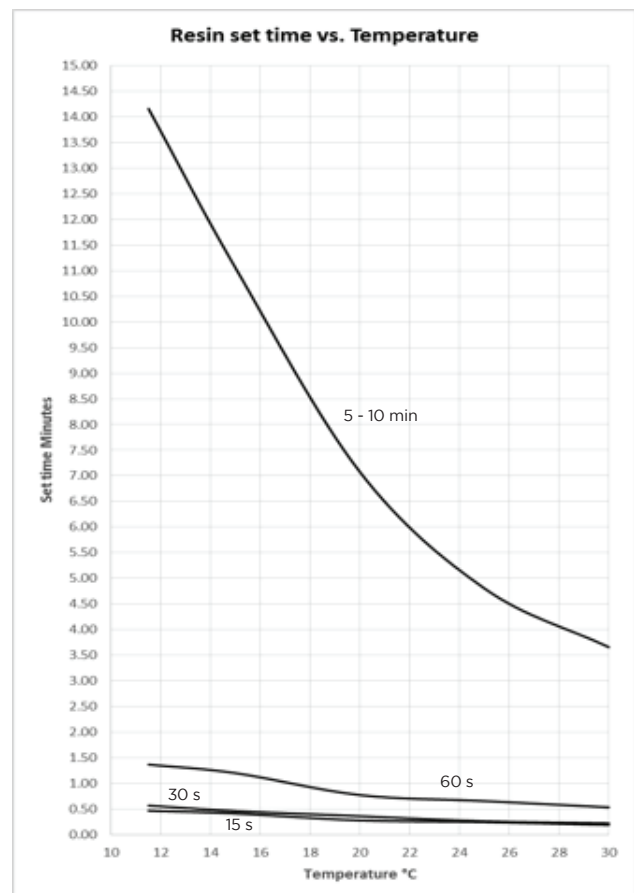
## Set Times

A wide range of set times is offered for varied conditions. Cartridges are colour coded.

Colour	Set time @ 20°C	Mixing Time
Purple	15 sec	8 sec
Red	30 sec	10 sec
Green	60 sec	15 sec
Blue	120 sec	20 sec
Yellow	5 - 10 min	20 sec

**Please note** that mix times as indicated above are for mechanised installations. These may vary with jackhammer and other installations.

Set times will vary with the temperature of Fasloc® resin cartridges as indicated in the graph.



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### Strengths

The performance of resin in the field depends on the design strength of the resin “mix”. Shear strength specifications are minimum 19 MPa for standard Fasloc® and 23 MPa for Fasloc®A.

Note that the effectiveness of a resin bolt system depends on many factors such as:

- Type of tendon used
- Ratio of hole diameter to tendon diameter
- Capsule diameter and length
- Length of hole and encapsulation length
- Over-drill in hole length.

### Quality Control

The superior quality of the Fasloc® bolt support system is assured through a three-part quality control program.

- Ingredient testing
- In-process control tests
- Finished product acceptance tests.

### Storage

- For maximum shelf life Fasloc® cartridges should be stored away from direct sunlight in a reasonably cool, well ventilated, dry area
- Storage life is six months at 20°C
- Under adverse storage conditions, shelf life is reduced
- To ensure proper storage, the product should not be subject to temperatures in excess of 30°C for prolonged periods
- Storage is recommended under cover with adequate ventilation. Conversely, while cold storage does not adversely affect the shelf life of Fasloc®, it should be warmed to a range of 10° - 15°C before using to assure set times within the specified range
- It is essential that stocks be rotated so that the oldest stock is first out. Shelf life is 4 - 6 months.



### Handling Precautions

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 contact with eyes, immediately flush with plenty of water for at least 15 minutes. Call a doctor.

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

Cartridges are filled with inert fillers, water, polyester resin and catalyst (active ingredients include low levels of styrene and modified benzoyl peroxide). Fasloc® resin cartridges are for industrial use only and are intended for use in conjunction with bolts.