

# Fasloc<sup>®</sup> SF Styrene-Free

Product code: RC-SF

Product specification: Styrene-Free

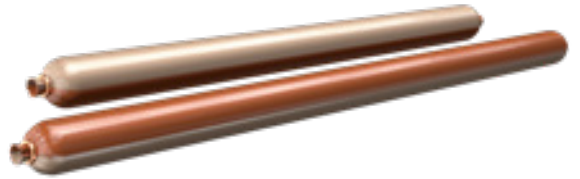
Category: Resin Capsules for Rock Bolting

## Key Features

The Fasloc<sup>®</sup> SF Styrene-Free resin capsules are manufactured from a sophisticated blend of reinforced styrene-free resins. Standard, single-speed resin capsules utilize a two-part mastic/catalyst [oil-based] arrangement.

Fasloc<sup>®</sup> SF Styrene-Free capsules enable convenient applications for short or long rock bolts where a fast cycle time is needed.

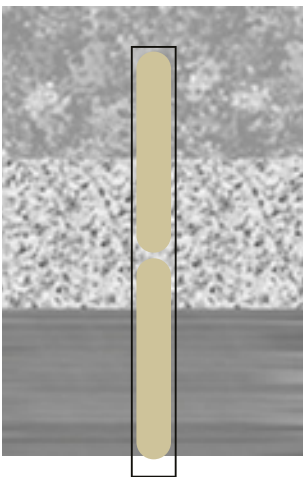
During installation, the rotating bolt ruptures the capsule's foil packaging, mixing the components and starting a chemical reaction that solidifies the resin into a strong anchor. Styrene-free means safety, comfort of work, and lower impact on the environment.



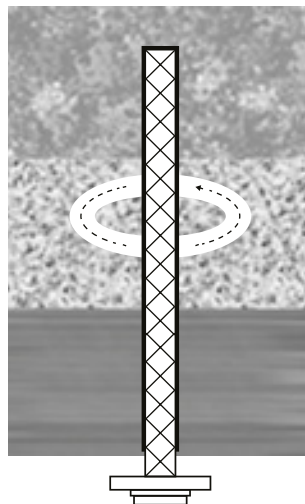
## Selection of Capsule Type, Method of Use

Insert the capsule/capsules to the top of the previously drilled and cleaned borehole. Selection of diameter and total length of the capsule should be based on bolt length, diameter, and planned anchoring length. For indications see table 1 below or ask your local representative. Then insert the bolt attached to the bolting machine and mix the resin and catalyst components, rotating and moving the bolt up to the bottom of the borehole. After the mixing, hold the bolt until the resin is set, then turn the nut. See pictures 1 – 3.

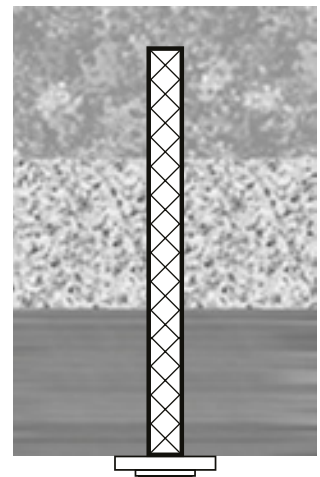
Table 2 below shows estimated mixing and hold times, depending on the capsule type and rotational speed of bolting equipment, at a temperature of about 20 °C. These instructions are general guidelines. Various factors affect installation, so on-place tests should be conducted to determine actual mix and hold times. Generally, for adequate mixing, it is recommended to follow the rule of a minimum of 30 turns of the anchor.



1. Insert the capsule/capsules to the top of the borehole. The capsule should be placed with the fast part towards the bottom of the hole.



2. Insert the bolt attached to the bolting machine and mix the resin and catalyst components, rotating and moving the bolt up to the bottom of the borehole.



3. After the mixing, hold the bolt until the resin is set, then turn the nut.

### Specification

Options	Unit	From	To
Diameter	mm	18	42
Length	mm	200	2000
Gel time at 20°C	seconds	15	600

**Table 1: Selection of Capsule Dimensions**

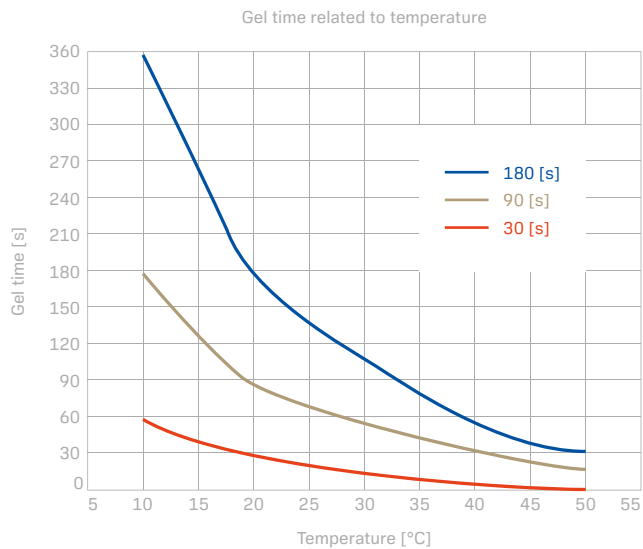
Bolt Diameter	Hole Diameter mm / Capsule Diameter mm							
	25 / 23	27 / 23	27 / 24	28 / 24	28 / 25	30 / 25	30 / 25	32 / 28
	Hole Length in mm per 300 mm of Resin Capsule							
mm	mm	mm	mm	mm	mm	mm	mm	mm
16	350							
19	490	350	380	380	330	360		
22				470	510	370	460	350
25								480

**Table 2: Mix and Hold Times (in seconds)**

Revolutions	100 RPM		300 RPM		600 RPM		800 RPM	
	Mix	Hold	Mix	Hold	Mix	Hold	Mix	Hold
15 s		NR*	9-12	5-15	7-10	5-10	7-10	5-10
30 s		NR*	20-25	10-20	10-20	10-20	10-15	10-20
60 s	30-40	10-40	20-30	10-30	20-30	10-30	20-30	10-30
90 s	30-40	20-90	20-30	10-60	20-30	10-60	20-30	10-60
180 s	40-90	120-180	30-90	120-180	30-60	90-120	20-60	90-120
Ultra-Slow	40-240	180-600	40-240	180-600	40-240	180-600	40-240	180-600

\* Not recommended

### Basic Technical Data



Uniaxial compressive strength [BS 7861 Method]	MPa	≥ 80
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### Shelf life

Shelf life is 9 months when stored below 20°C. Storing resin capsules at temperatures above 25°C degrees significantly reduce shelf life.

### Certifications

- ISO 9001:2015
- ISO 14001:2015
- ISO 45001:2015