Fasloc® Single Speed

Product code: FAS
Category: Polyester resin capsules for rock bolting

Key features

The Fasloc® S resin capsules are manufactured from a sophisticated blend of reinforced polyester resins. Standard, single-speed resin cartridges utilize a two-part Mastic/Catalyst arrangement. Fasloc® S cartridges enable convenient applications for short or long rock bolts where a fast cycle time is needed. During installation, the bolt rotation ruptures and shreds the foil packaging of the cartridge, enabling the key components to mix, starting a chemical reaction that transforms the resin into a solid, strong anchor.



Selection of cartridge 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 capsules should be based on bolt length, diameter, and planned anchoring length. For guidance, we recommend contacting your Sandvik 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 mixing, hold the bolt until the resin is set, then turn the nut. See Figures 1 – 3.

Table 2 below shows estimated mixing and hold times, depending on the cartridge 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-site 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.



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

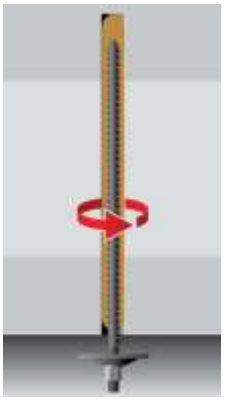


Fig. 2. Insert the bolt attached to the bolting machine and mix the resin and catalyst components, rotating and moving the bolt up to the top of the borehole.

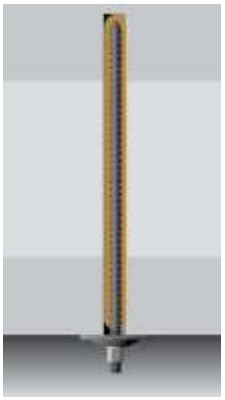


Fig. 3. After the mixing, hold the bolt until the resin is set, then turn the nut.

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Basic technical data

Table 1. Specifications

Options	nominally	from	to
Diameter	-	18 mm	42 mm
Length	-	200 mm	3000 mm
Gel time at 20°C	-	10 s	600 s
Uniaxial compressive strength	> 50 MPa	-	-

Table 2. Mix and hold times

	Mixing time/Hold time in seconds [1]							
Revolutions	100 RPM		300 RPM		600 RPM		800 RPM	
Gel time type	Mix	Hold	Mix	Hold	Mix	Hold	Mix	Hold
15 s	NR [1]	NR [1]	9-12	5-15	7-10	5-10	7-10	5-10
30 s	NR [1]	NR [1]	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

[1] Not recommended

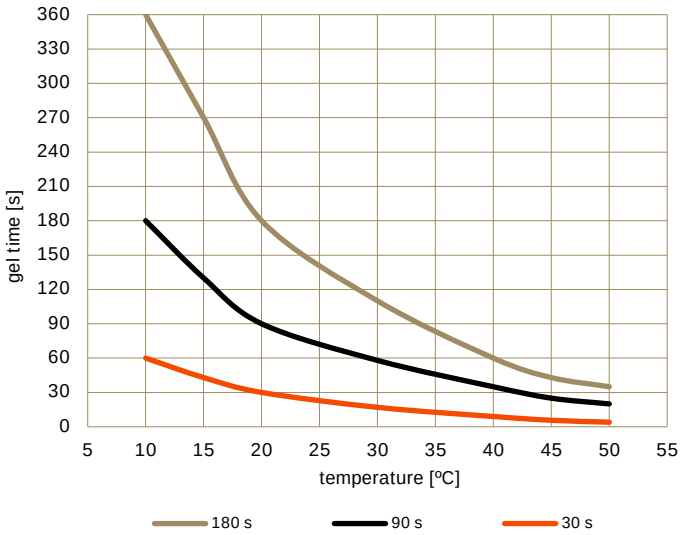


Fig. 4. Gel time related to temperature

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Shelf life	The shelf life of our products is influenced by a variety of factors, including but not limited to the composition of raw materials, transportation methods, storage temperature, and the influence of sunlight. We are committed to tailoring each product to best suit the specific conditions at the location of application. Please contact your local representative for final confirmation of any key specifications.
Certifications	— ISO 9001:2015 — ISO 14001:2015 — ISO 45001:2015
Legal disclaimer	All dimensions, weights, quantities, and specifications are those applicable at the time of this publication and may be amended from time to time. Please contact your local representative for final confirmation of any key specifications.

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