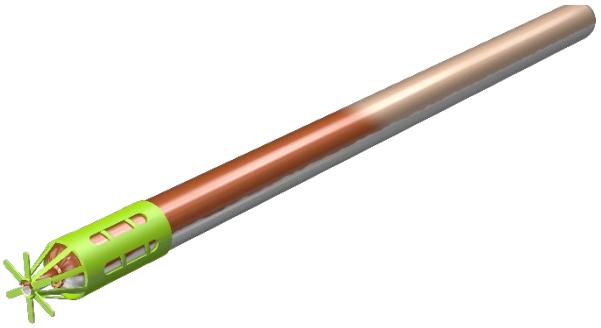
Fasloc® Duo Speed Torq

Product code: FAT
Category: Polyester resin cartridges for rock bolting

Key features

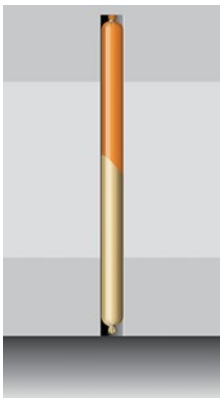
The Fasloc® Duo Speed Torq resin cartridges are manufactured from a sophisticated blend of reinforced polyester resins. In addition to the typical two-part Mastic / Catalyst arrangement, Torq cartridges contain two distinct resin gel times - Fast and Slow - in the same convenient package. Fasloc® Torq cartridges enable a convenient one capsule application where rebar pre-tension and a fast cycle time are needed. During installation, the bolt rotation ruptures and shreds the resin foil packaging, enabling the key components to mix, and starting a chemical reaction that transforms the resin into a solid, strong anchor.



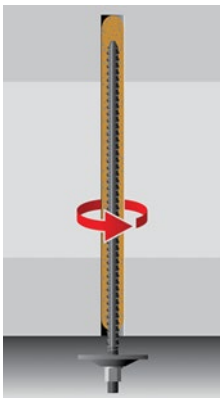
Selection of cartridge type, method of use

Insert the cartridge into the top of the previously drilled and cleaned borehole. The capsule should be placed with the quick-setting (Fast) part, usually yellow coloured, to the bottom of the hole. Selection of diameter and total length of the cartridge should be based on bolt length, diameter, and planned anchoring length. For indications see Table 1 below or ask 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. While mixing, the reaction will start, and the resin Fast part will hold the bolt until the pin breaks. Then it will turn the nut with enough force to pre-tension the bolt. See photos 1-3.

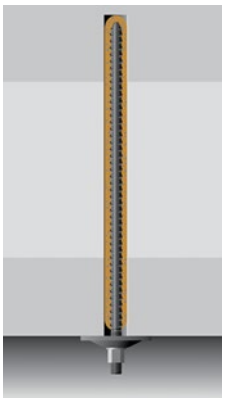
These instructions are general guidelines. Various factors affect installation, so on-site tests should be conducted to determine actual mix times. Generally, for adequate mixing, it is recommended to follow the rule of a minimum of 30 turns of the anchor.



1. Insert the cartridge 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. While mixing, break the pin and turn the nut with enough force to pre-tension the bolt

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Specifications

Options	nominally	from	to
Gel time slow at 20°C	60 s	55 s	70 s
Gel time fast at 20°C	15 s	10 s	17 s
Uniaxial compressive strength [Slow]	≥ 60 MPa	-	-
Shear strength [Slow]	≥ 20 MPa	-	-
Uniaxial compressive strength [Fast]	≥ 40 MPa	-	-
Shear strength [Fast]	≥ 20 MPa	-	-

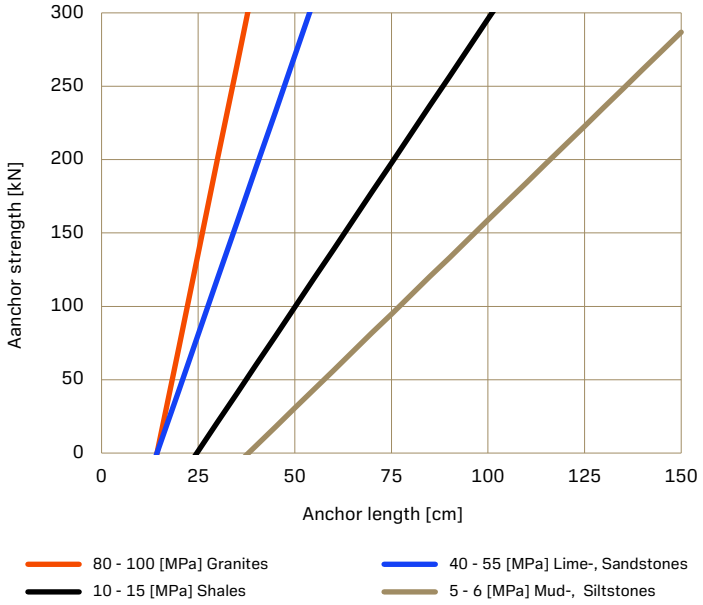
Mix time

Mixing time in seconds [1]			
< 300 RPM	300 RPM	600 RPM	800 RPM
Mix	Mix	Mix	Mix
NR [2]	15	10	7

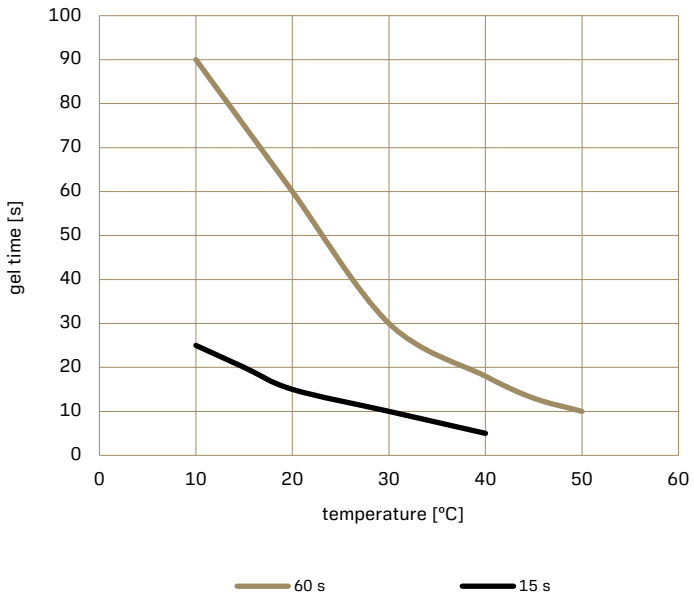
1) Mix time refers to the Fast part of the cartridge, the gel time of which is typically 15s.
2) Below 300 RPM is not recommended

Basic Technical Data

Rock bolt anchor strength related to UCS of rock and anchor length



Gel time related to temperature



Shelf life

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

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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