

ROCLOC® Resin Capsules

DESCRIPTION



RocLoc® Resin Capsules are a two-compartment capsule. One compartment contains the resin mastic, and the other compartment contains the catalyst paste.

KEY BENEFITS

- › Immediate bonding of the bolt to surrounding strata, allows for immediate reinforcement and fast anchoring
- › High load transfers achieved immediately after setting of the resin
- › Thixotropic compound allows for overhead installations
- › Can be used for end-anchorage or full-length anchorage and load distribution
- › Full encapsulation provides additional corrosion protection

FUNCTIONALITY

The insertion and rotation of a rock bolt breaks the sheath and allows the resin and catalyst to be mixed. This thixotropic compound sets after a specified setting time and creates a chemical bond between the anchor and the strata.

INSTALLATION

Resin capsules are typically used in bolting applications for mining and tunnelling activities.

The capsules can be used in singles for end-anchoring or multiples for full bolt encapsulation.

The installation of bolts and resin capsules can typically be carried out by either manual or mechanized bolters. After the boreholes are drilled, capsule/s are inserted into the boreholes followed by the insertion of the rock bolt. The bolt is rotated and then held for a specific amount of time to allow for the compound to set.

TECHNICAL SPECIFICATIONS

Strength Specifications

Requirements	
Standard	19 MPa
High Strength	23 MPa

Set Times Specifications

Set Time	Standard Colour Code	Spin Time*	Hold Time*
15 sec	Purple	7 sec	8 sec
20 sec	Black	8 sec	12 sec
30 sec	Red	10 sec	20 sec
60 sec	Green	15 sec	45 sec
120 sec	Blue	20 sec	100 sec
5/10 mins	Yellow	20 sec	10 mins

* spin time and hold times established at 20 degrees C. Set time will be faster(slower) when the temperature is higher(lower).

- › Resin capsules are manufactured with coloured resin mastic to assist with the easier identification of capsule set times.
- › Variations in set time depending on temperature should be accounted for during the installation. At lower temperatures, a longer hold time is required.
- › 2 Speed capsule variations are also available.

Dimension Specifications

Particulars	Value (in mm)
Standard Diameters	23, 25, 28, 30, 32, 35
Standard Lengths	350, 400, 450, 500, 600, 700, 900, 1000, 1100, 1150, 1350

* other dimensions can be manufactured if required

- › Final capsule specifications will be determined upon assessment of the proposed working environment

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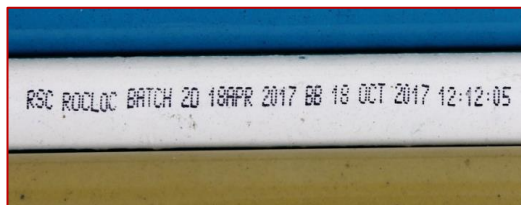
QUALITY CONTROL

All finished product is subjected to an extensive quality control procedure including assessment of:

- › Incoming raw material conformance testing
- › Continuous in-process testing
- › Finished goods acceptance testing
- › Regular in-storage testing to ensure continuous compliance

BATCH PRINTING

Each individual capsule is printed with batch-specific information to allow traceability of the capsule once removed from its box, and to assist with the identification and quality control of individual capsules by the end user:



Printed information includes:

- › Production site
- › Production batch details
- › Date of manufacture
- › Best before use-by date

SHELF LIFE

RocLoc® Resin Capsules have a shelf life of 6 months for the standard grade and 9 months for the export grade.