

WE REINFORCE THE MINES®

RocLoc® RESIN CAPSULES

RSC Ekusasa Mining is the Original Equipment Manufacturer (OEM) and supplier of RocLoc® Resin Capsules to the mining industry.

Description

RocLoc® Resin Capsules are a two compartment capsule with the outer sheath made from polyester film. The one compartment contains the resin mastic and the other compartment contains the catalyst paste.

The insertion and rotation of a roof 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.

Application

RocLoc® Resin Capsules are used in conjunction with roof bolts and cable anchors to provide support in underground excavations. Installations can be done with either hydraulic or pneumatic type bolters.

Advantages

- Fast anchoring of roof bolts to surrounding strata.
- High load transfers achieved immediately after setting of resin.
- Point anchor installation with fast set single speed RocLoc® Resin Capsules.
- Full column bolts resist horizontal and vertical strata movements.
- Prevent sag by clamping the individual strata layers into a single beam.
- Protects bolt from corrosion and can be used in wet conditions.

Dimensional Specifications

Standard* Diameter (mm)	23, 25, 28, 30, 32, 35
Standard* Length (mm)	350, 400, 450, 500, 600, 700, 900, 1000, 1100, 1150, 1350

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

* If required, other lengths can be manufactured.

Set Times Specifications

Set Time	Standard Colour Codes	Spin Time @ 20°C	Hold Time @ 20°C
15 Seconds	Purple	7 sec	8 sec
20 Seconds	Black	8 sec	12 sec
30 Seconds	Red	10 sec	20 sec
60 Seconds	Green	15 sec	45 sec
120 Seconds	Blue	20 sec	100 sec
5/10 Minutes	Yellow	20 sec	10 Min

2 Speed capsule variations are also available.

Spin and Hold times are affected by ambient temperature. With lower temperatures, a longer hold time will be required. Please consult your local representative should have any queries regarding the appropriate working time for your environment.

Quality

All finished product has been through an extensive quality testing procedure covering the following areas:

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

Strength

Requirements:	
Standard	19 MPa
High Strength	23 MPa

Shelf Life

When stored in a cool, dry environment with an ambient temperature of no more than 20°C, the following shelf life can be expected:

- Capsules 600mm and shorter - 6 months.
 - Capsules longer than 600mm - 4 months.
- In the case of mixed product box, the longest capsule's length will determine the shelf life.

Any variance in storage temperatures can reduce the effective shelf life.

Storage Recommendations

- Store in a cool, dry environment away from direct sunlight.
- Ensure the ambient temperature is no more than 20°C.
- Storing at cooler temperatures is advised as this will extend the shelf life.
- Attempts must be made to keep the storage temperature constant.
- Do not double stack pallets.
- Do not place heavy objects on top of pallets.
- Store in a manner that will facilitate the issuing of stock in a FIFO (First In First Out) manner.

Health and Safety

Please ensure that you are familiar with the contents of the Material Safety Data Sheet for this product for all issues relating to:

- Toxicity
- Any physical contact with capsule contents
- Ingestion
- Disposal

Always wear appropriate PPE (gloves and goggles) when handling RocLoc® Resin Capsules.

Batch Printing

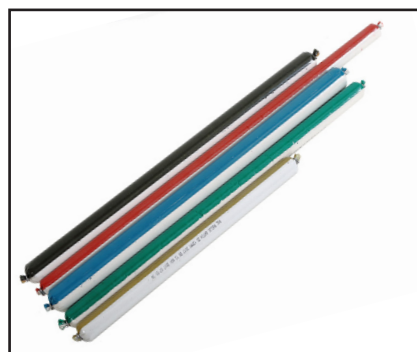
The following information is printed on each individual capsule to assist with improved quality control by the end user, easier identification of capsules even once removed from their packaging and improved batch traceability:

- Batch Number (incorporates manufacture date).
- Time of manufacture.
- Best Before use-by date.



Colour Mastic

RocLoc® Resin Capsules are manufactured with coloured resin mastic to assist with the easier identification of the capsules set times. These colours are in line with South African specifications.



On Site Assistance

Although RSC Ekusasa Mining will provide adequate assistance, please note the following:

- The onus is on the end-user to determine the suitability of this product for their working environment.
- The end-user is responsible for effective installations.
- The end-user is responsible for correct storage and stock issuing.
- Please contact your local representatives for any on-site assistance that may be required.

General Disclaimer

The information contained within this document is correct at the time of publishing and every attempt is made to ensure its accuracy. The information contained within is subject to change without notice. All information should be viewed as guidelines and are for information purposes only.

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SANS 1534

RSC Ekusasa Mining is ISO 9001:2015, ISO 14001:2015 and ISO 45001:2018 accredited and has a certified Integrated Management System in place.