

**MINERAL BOLT**

IRML

**THIXOTROPIC SILICATE RESIN**

## Product Code

IR ML THX A

IR ML THX B

**PRODUCT DESCRIPTION**

Mineral-Bolt is a 2-component, high strength silicate resin. It is suitable for fixing mechanical bolts, cable bolts, hollow cables, and self-drilling anchors in the borehole, grout stabilization (for heavily cracked rock mass), gas sealing and water stopping.

**MATERIAL CHARACTERISTICS**

## ► Components:

|                   |                   | Mineral Bolt A    | Mineral Bolt B    |
|-------------------|-------------------|-------------------|-------------------|
| Appearance        | -                 | Pale Brown Liquid | Dark Brown Liquid |
| Density at 20°C   | g/cm <sup>3</sup> | 1.45±0.05         | 1.21±0.05         |
| Viscosity at 25°C | mPas              | 400±50            | 200±50            |

## ► Material Properties:

|                      |      | Mineral Bolt FAST | Mineral Bolt MEDIUM | Mineral Bolt SLOW | Mineral Bolt ULTRA SLOW |
|----------------------|------|-------------------|---------------------|-------------------|-------------------------|
| Foam Factor          | -    | 1.0               | 1.0                 | 1.0               | 1.0                     |
| Reaction End Time    | Secs | <90               | 90-360              | >360              | >600                    |
| Max. Reaction Temp   | °C   | <130              | <135                | <120              | <120                    |
| Compressive Strength | MPa  | >60               | >60                 | >50               | >50                     |
| Flexural Strength    | MPa  | >20               | >20                 | >20               | >20                     |

**PROCESSING**

The components Mineral Bolt A and Mineral Bolt B shall be pumped using a two-component pump as commonly used in the mining and tunnelling industry with a volumetric ratio of 1:1.

It is recommended to use two static mixers of the type: M-10x360 or equivalent.

## Components mixing ratio:

|           | Mineral Bolt A | Mineral Bolt B |
|-----------|----------------|----------------|
| By volume | 100            | 100            |
| By weight | 100            | 87             |

If components A and B are mixed at a different mixing ratio, the reaction time and mechanical properties may deviate from above specifications.

**STORAGE AND TRANSPORT**

- Both adhesive components are supplied in jerry can containers and 1000L IBC.
- Recommended storage in dry and well ventilated area at temperature range of 10 to 30 °C. It must remain out of direct sunlight for longer periods (>24 hrs).
- The guaranteed shelf life from the date of manufacture is 12 months for Mineral Bolt A and Mineral Bolt B in original unopened packs (if stored according to the instructions).

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**THIXOTROPIC SILICATE RESIN****NOTES**

- ▶ Data presented in this document were obtained under laboratory conditions. Actual results under different conditions may slightly deviate from published data. A Safety Data Sheet for this product is available upon request.
- ▶ Before an application, please contact with the supplier to confirm product usefulness at given application conditions.
- ▶ DSI Underground is Quality Assured to ISO 9001:2015, Registration No.QMS 41328