

SOFT ROCK MINING / HARD ROCK MINING

BEVEDOL®/BEVEDAN®

TWO-COMPONENT, FOAMING POLYURETHANE INJECTION SYSTEM

DESCRIPTION

A two-component PUR injection system consisting of Bevedol® (Resin) and Bevedan® (Catalyst) which are metered in a 1:1 volume ratio via a pump unit and injection gun into the strata. The two components mix in the gun, which initiates the reaction of the product. The low viscosity mixture penetrates the smallest fissures, hardens and ensures the consolidation and sealing of the area submitted to treatment.



APPLICATION AND USES

The consolidation, stabilisation and sealing of highly convergent strata.

- Consolidation in wet and water bearing strata.
- Sealing against water with hydrostatic pressure.
- Consolidation of brittle and fractured ground.

ADVANTAGES

- Low viscosity product allowing good penetration into the smallest fissures.
- Excellent adhesive power which forms strong bond with strata.
- Quick reaction time helps reduce migration and loss of material.
- Yields to ground pressure, accommodates subsequent ground movement.
- High mechanical resistance gives improved support of strata.

TECHNICAL DATA

Typical Properties @ 25°C	
Bevedol Density	1.03 g/cm ³
Bevedan Density	1.23 g/cm ³
Bevedol Viscosity	280 ± 40 mPa·s
Bevedan Viscosity	210 ± 70 mPa·s
Adhesive Strength	>3MPa
Flexural Strength (unfoamed)	90MPa
Compressive Strength (unfoamed)	80MPa
Tensile Strength (unfoamed)	45MPa
Bevedol colour	Honey
Bevedan colour	Dark Brown

APPLICATION METHOD

Application must be performed by Minova operators who have been trained in accordance with Minova PUR training manual.

Yield

The quantity of material required to fill each injection hole will depend on depth of hole, nature of strata, mining conditions, etc. A maximum of 200 kg of product can be injected into each hole. (As per Department of Mineral Resources regulations in NSW coal mines).

SAFETY INSTRUCTIONS AND LIMITATIONS



- Material must be applied within the temperature range 5°C to 40°C.
- Application must fall within the guidelines of the Coal Mine’s Regulation Act with respect to ventilation.
- Queensland - Mine Manager’s Rules apply.

PACKAGING AND TRANSPORTATION

Bevedol/Bevedan is supplied in colour coded drums with handle and secure cover lid.

Product	Drum Size	Drum Colour
Bevedol	21 kg	White
Bevedan	24 kg	Blue

The drums for the A and B components are clearly distinguished by colours and labeling. Different grades of Bevedol are distinguished by colour coded label and associated letters as indicated:

Product		Foam Factor	Foaming Time ¹
Bevedol S		1.7-2.5	60"-90"
Bevedol WF		1.0-1.1	35"-50"

¹ Foaming Times @ 25°C

These figures are given as a guide and may vary with site application conditions.

STORAGE AND SHELF LIFE

Both Bevedol and Bevedan have a shelf life of 12 months when stored as below.

STORAGE CONDITIONS

Store in a cool, dry place between 5°C and 40°C away from direct sunlight. Avoid humidity entering by storing in a ventilated room and keeping seals tightly closed when not in use.

DISPOSAL

We recommend disposing of liquid residues and empty drums in an authorized incineration plant. Dispose of contents/container in accordance with local/regional/national regulations.

HEALTH AND SAFETY

Bevedan and Bevedol are classified as hazardous according to GHS. For more information please refer to the Safety Data sheet at www.minovaglobal.com

TECHNICAL SUPPORT

We provide technical advisory service by a team of specialists in the field. The service includes on site assistance and advice on evaluation trials and laboratory work.

MANUFACTURER

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An ISO 9001:2015 Quality Management
Certificated Company



FS 603747

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