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Strata & Foundation Stabilization Injection System

DESCRIPTION

ReZolution Strata Bond is a two component, 1:1 by volume, fire resistant injection system based on urea silicate technology. Using a two-component injection pump coupled with a static in-line mixer head it is designed to rapidly stabilize strata and coal by imparting structural strength and flexibility. **ReZolution Strata Bond** can be used in wet environments where it exhibits good adhesion to wet surfaces, but will not absorb water.

In addition to being fire resistant owing to its unique silicate chemistry, the maximum exotherm reached during cross linking is well under the maximum 150°C allowed as specified by the NSW government Trade and Investment Mine Safety guideline MDG 3608 August 2012, Appendix D1-TM003.

USES

Rapid stabilization and strengthening strata and coal

Rapid consolidation of other substrates such as sand, gravel, fractured road rock etc.

Crack repairs above and below water.

FEATURES

- Fire resistant
- Very fast reactivity imparting structural strength and resiliency
- Suitable exothermic behavior for use in coal mines
- Similar reaction and cured properties in dry or underwater situations
- Penetrates cracks greater than 0.15mm
- Does not expand its cured volume. Does not absorb water
- Very good adhesion to wet surfaces

PRODUCT DATA

TECHNICAL DATA

Appearance	Opaque liquid	Brown liquid
Viscosity (20°C)	700—900 cps	200 cps
Density (20°C)	1.51 g/ml	1.24 g/ml
Flash point	Not Applicable	> 200°C

Strata Bond Part A

Strata Bond Part B

Gel Time (25°C) Approximately 2.5 minutes from mixing

Exothermic Cure Starts after 4 minutes

Border time (time to reach 1 Mpa, 25° C) 5 minutes Compressive strength @ 1 hour \sim 30 MPa @ 24 hours \sim 45 MPa

@ 7 days > 50 MPa

Maximum bond to substrate Attained within 2 hours

24 hour compressive strength > 30 MPa

7 day compressive strength Typically 38 MPa

ReZolution Strata Bond

Please note : that the Technical Data figures are those measured in the Polymer Group Ltd laboratory. Conditions in the mine may influence these results.

CLEANING INJECTION EQUIPMENT

For short breaks, pump only Part A through the mixer.

For long breaks (eg storage, or after job is complete) pump clean water through Part A pump/injection lines; and pump clean engine oil through Part B pump/injection lines.

SAFETY PRECAUTIONS

Please refer to the Material Safety Data Sheets for full details. Although ReZolution Strata Bond contains isocyanates, the cured product is harmless.

Nevertheless, it is recommended that only experienced operators mix and inject this product.

Wear appropriate PPE and avoid contact with skin and eyes.

Mop up any spills with absorbent materials such as zeolite or sand, and dispose of in accordance with local regulations. Prevent unreacted product from entering drains. STORAGE

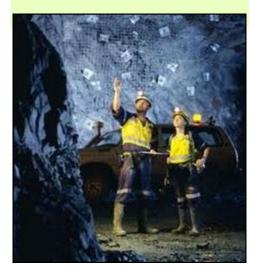
12 months if stored in dry, unopened containers within temperature range +5° to +35°C. Beware of frost sensitivity for Part A.

REZOLUTION MINING POLYMERS

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Excellence in Subterranean Chemistry



REZOLUTION MINING POLYMERS

ReZolution Mining Polymers, a division of Polymer Group Ltd was established in 2013 with the goal of developing a high-performance range of mining industry strata reinforcing and strata control materials.

The technical group associated with ReZolution Mining Polymers comprises research and development chemists, experienced mining industry personnel, together with construction industry applicators.

Polymer Group Ltd is seeking world-wide representation through regional distributors who are experienced in supply to construction (tunneling and related infrastructure activities), mining material suppliers and geothermal/ground control professionals and contractors.



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