

# Water Stop, Ground and Strata Consolidation System

REZOLUTION MINING POLYMERS

## Aqua Stop Water Stop, Ground & Strata Consolidation System



### DESCRIPTION

**ReZolution Aqua Stop** is a solvent free, 2-component, high strength polyurethane injection system. It is rapid setting designed as a water stop and also for ground and strata consolidation. The system contains fire retardants and is self-extinguishing.

### USES

High water volume control.

Filling and sealing of openings, cracks and fissures in fractured rock, eg roadways, shafts etc.

Consolidating other substrates such as sand and gravel.

Concrete structure repair.

### FEATURES

- A fast reacting polymer with strength and rigidity
- Will form a rigid foam in the presence of water
- Without water, the polymer cures to a tough, resilient solid
- It is a two-component system, with both components mixed in equal volume proportions (1:1 by volume) using a two-component injection pump coupled with a static in-line mixer

### PRODUCT DATA

	Aqua Stop Part A	Aqua Stop Part B
Appearance	Yellow liquid	Brown liquid
Viscosity (20°C)	400 cps	200 cps
Density (20°C)	1.12 g/ml	1.24 g/ml
Flash point	> 200°C	> 200°C

### TECHNICAL AND PROCESSING DATA

Mix Ratio:	1A:1B parts by volume
Onset of foaming	~ 30 seconds
Foaming stops after	~ 50 seconds
Foam expansion factor	~ dependant on amount of water encountered
Density without foaming	~ 1,200 kg/m <sup>3</sup>
Shore D Hardness as a solid	~ 75
Flexural strength as a solid	~ 5 MPa
Elongation at break	~ 20%

Please note that the above figures are those measured in the POLYMER GROUP LTD laboratory. Conditions in the mine may influence these results.

# ReZolution Aqua Stop

## 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 Aqua Stop contains isocyanates, the cured product is inert.

Nevertheless, only experienced operators should mix and install 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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### 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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