

CASE HISTORY

AUGUST 2017



REZOLUTION MINING POLYMERS

STRATA STABILIZATION

# CADIA GOLD MINE STRATA STABILIZATION



## PROJECT: Underground Mine Stabilization

Following a seismic event in the mine a large amount of re-instatement work was required to return the mine to full production. This involved the injection of over 600 tonnes of rapid-setting urea-silicate grout into the main drives and supporting accessways. The geotechnical design set a minimum standard able to withstand seismic events up to 3.0. The mine subsequently withstood a shock of 3.5 without damage.

**Asset Owner:** Newcrest Mining

**Site:** Cadia Mine is a series of large underground and open-cut gold and copper mines located in the Cadia Valley, about 20 kilometres south of the regional city of Orange, New South Wales, Australia.

**Product:** **Rezolution Strata Bond**

**Contractor:** DSI Underground



*Newcrest Mining's Cadia Valley Operations*



# ReZolution Bolt Hold



## Description

**ReZolution Bolt Hold** is a fire resistant, instant thickening, rapid setting injection system based on urea silicate technology. It is designed to structurally grout/set bolts and bars into rock strata.

## Features

- Fire resistant
- Forms a grease like consistency when injected to prevent leakage
- Economical - no waste as with sausage type bolt anchor systems
- Easy to apply
- Very slight (2-3%) expansion on setting adds superior bolt lock strength
- Will also seal against water inflow



## 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.

