

# TunnelGuard

## SMS | Specialised Mining Services



### Description

Tunnel Guard by **ZETACHEM™** is a two part mix consisting of a cementitious mix and liquid latex. Tunnelguard has excellent binding and sealing characteristics.

The product is applied under high pressure thus allowing it to penetrate any fractures in the rock, creating a key blocking system and combined with the high adhesion strength of the product, the rock on either side of the fracture is effectively consolidated.

The rest of the substrate is sealed and protected from exposure to the atmosphere, which prevents further deterioration of the rock due to oxidation.

### Features and benefits

- Adhesive properties in both wet or dry environments
- Excellent adhesion to any substrate
- Easy and quick to apply
- UV stable and temperature tolerant
- Prevents time dependant deterioration of gully hanging wall
- Stops further deterioration of damaged hanging wall
- Prevents scaling of gully side walls below the packs
- Serves as an early warning indication of ground movement, i.e. when cracks start to appear in the TSL
- Reduces time spent on early examination
- Prevents costly rehabilitation of back areas
- Reduces the risk of FOG or a rockburst and associated accidents

### Applications

- To bind and seal highly weathered rock and shale
- To extinguish pyritic shales
- Supporting of key blocks

### Technical Data

Two part system	Powder / Latex binder
Tensile strength	2.5 to 8 Mpa
Compression strength	29.5 Mpa
Pull of strength	1.7 Mpa
Initial setting in 1 hour and 90% of ultimate strength achieved in 7 days	
Shelf life	6 months
Safety	Non flammable Non toxic

**Specialised Mining Services Pty Ltd**  
164/421 Pacific Highway  
Artarmon NSW 2064, Australia

Phone: 02 9427 9748  
Fax: 02 9420 5739  
Email: [info@smsconstruct.com](mailto:info@smsconstruct.com)



[www.smsconstruct.com](http://www.smsconstruct.com)