

Flexi-Liner™ (MINING)

Aquacrete Flexi-Liner™ is a single component, sprayable wet-mix product that achieves high tensile strength, good flexibility and excellent adhesive properties.

Flexi-Liner™ can be used as a stand-alone product to address areas where unstable rock and coal strata require stabilisation.

The product forms a flexible membrane that

eliminates the effects of spalling, scaling and weathering on the strata.

Flexi-Liner™ can also be used as a supporting membrane to existing Aquacrete™ seals and stoppings.

It is applied in a 2-3mm thick coverage. The compact design of the wet-mix pneumatic pumping equipment minimises site handling.

APPLICATIONS

Aquacrete Flexi-Liner™ can be used for a wide range of applications including but not limited to:

- Stabilisation of loose rock and strata
- Primary or second phase gas and air sealing - minimises gas migration
- Water containment prevents water leakage
- Tensile reinforcement of underground structures with complex profiles and geology
- Preliminary slope protection
- Tunnel and shaft lining
- Protection against weathering
- Crack propagation control
- Assists with controlling VCD deformation during floor heave or roof convergence
- Pillar / rib support
- VCD repairs

RECOMMENDATIONS

- Flexi-Liner is applied in areas with sufficient air flow after application to allow for curing and product performance specifications to be met.
- Flexi-Liner is not applied to damp or moist surfaces that holds or retains moisture behind the applied surface before the product has cured.

PRODUCT FEATURES AND BENEFITS

Safer

- Earth-conscious and non-hazardous
- Anti-static and fire resistant
- Corrosion resistant
- Passes AS/NZS 4020:2005 testing of products for use in contact with drinking water

Faster

- Applied to a 2-3mm thickness
- Excellent adhesion properties
- Typically tack-free within 45 - 60 minutes in areas with sufficient air flow
- Lightweight and easy to transport

Stronger

- Independently tested and certified
- Water resistant
- The ductile and flexible nature allows for substantial bulging prior to failure

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PERFORMANCE FEATURES

CHARACTERISTICS	
Form	Powder
Colour	Light grey
Bulk density	800-900kg/m ³
Application thickness	2-3mm
Coverage	10kg can cover 2.7m ²

PERFORMANCE	
Tensile strength at 14 days	5MPa
Bond strength at 14 days	2-3MPa to concrete and mild steel 1.8MPa to coal
Elongation at 14 days	60-75%
Positive hydrostatic pressure	Passes 5 bar (limit of testing equipment)
Fire resistant + anti-static	as per MDG 3608 7.2.1.1
Crack bridging at 14 days	1.5-2.0mm

FIRE HAZARD PROPERTIES as per AS / NZS 1530.3-1999			
Ignitability Index	12	Heat Evolved Index	4
Spread of Flame Index	6	Smoke Developed Index	4

NOTE

The performance test results are subject to variation depending on the care taken at the job site, the level of product application expertise, site conditions and any other conditions beyond Whitfield Minerals' control.

Refer to Safety Data Sheet for further information.

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