



Flexible Sail Stoppings

Safer... Faster... Stronger

Aquacrete Flexible Sail Stoppings provide a flexible fire resistant, anti-static barrier for a range of underground conditions. Specified to achieve a 2psi or 5psi overpressure rating, Flexible Sail Stoppings are designed to maintain ventilation control in adverse conditions as well as to offer a flexible solution to convergence.

Supplied as a complete kit or rated fabric only, Flexible Sail Stoppings can be sealed with Aquacrete shot blast products to enhance overpressure performance and can be fitted with a man door.

PERFORMANCE PROPERTIES

Electrical Resistance	Results
Mean upper surface resistance	66.5 MΩ
Mean lower surface resistance	39 MΩ
Fire Resistance:	
Spirit-Barthel Burner Test	
Mean persistence time of flame	0 seconds
Mean persistence time of glow	0 seconds
Fire Resistance:	
Spirit Lamp Test	
Mean persistence time of flame	0 seconds
Mean persistence time of glow	0 seconds
Air Permeability	
Average air flow per unit area	Ls-1m-2 : 4.8
Determination of Flammability by Oxygen Index	
Oxygen index	43.6

STORAGE AND PACKAGING

Product should be stored undercover in dry conditions.

PRODUCT APPLICATIONS

Aquacrete Flexible Sail Stoppings are specified for the following applications.

- Rated ventilation stoppings
- Stoppings

PRODUCT FEATURES

Safer

- Low toxicity
- Fire resistant
- Anti-static
- Creates a FRAS-rated gas and air barrier
- Specifically suited for high convergence areas

Faster

- Simple and fast to install
- Minimal material handling required
- Can be removed and re-used in similar sized cut throughs

Stronger

- Specified for a 2psi or 5psi overpressure rating
- Can incorporate a man door
- Can be sealed with Aquacrete shotblast products for enhanced overpressure performance

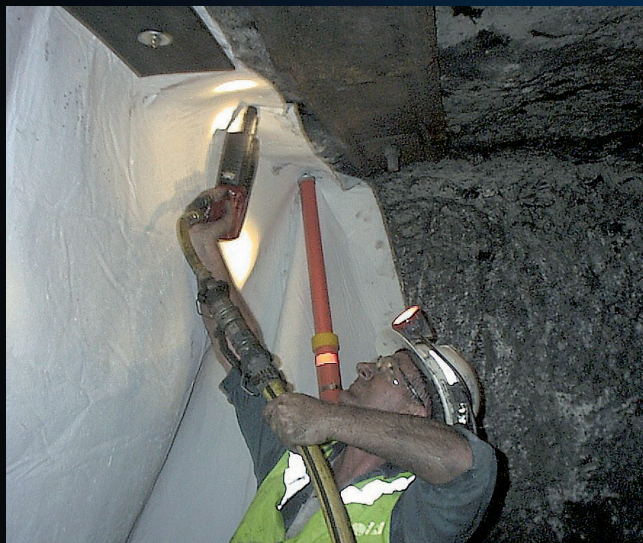
TESTING AND CERTIFICATION

To ensure that Aquacrete Flexible Sail Stoppings™ conform to the most stringent industry standards, independent testing has been undertaken and certification obtained to verify performance. Relevant certificates are available from Aquacrete on request.

Flexible Sail Stoppings Component Overview

Anchorage System

Aquacrete plastic strapping support is the recommended anchorage system to secure Aquacrete Flexible Sail Stoppings to the roadway aperture. Straps are supplied in various lengths and are installed end-to-end to cover the perimeter.



ANCHORAGE SYSTEM PROPERTIES

Plastic Strap Properties

Profile width	200mm
Circle diameter	12mm
Circle thickness	3mm
Web thickness	4mm
Moment inertia	241,462mm ⁴
Section Modulus	7,629mm ³
Polar moment inertia	7,218,015mm ⁴
Volume	0.0013m ³ /m
Mass	1.27kg/m

Resin Properties

Density	0.95g/cc
Tensile yield strength	26 MPa
Flexural modulus	1,206 MPa

Central Point Load Capacity

Support Centres	mm	1,000	500
Loading	kg	100	200
Deflection	mm	66	18

Screwbolts

The 120mm x 10mm screwbolts are threaded bolts that will cut through their own thread into hard rock and coal after drilling a 10mm hole to the required depth with a handheld air rotary drill. Screwbolts can be used in competent roof to eliminate the use of handheld roof bolts.

Description:

Screwbolt ; 120mm x 10mm
Embedment depth : 100mm
Drill diameter : 10mm
Safe working tensile load : 4.7Kn
Safe working shear load 10.1Kn

Note : Screwbolts should only be used when the geology perimeter is of sound nature and not loose and crumbly. If the geology perimeter is loose and crumbly, roof bolts should be used.

Allthread Rod

The M24mm Allthread Rod can be used in the ribs and floor after a 24mm hole has been drilled to the correct depth with a handheld rib boarer. The allthread rod is then anchored using chemical anchors.

Description:

Allthread bolt : M24mm
Embedment depth : Up to 3 metres
Drill diameter : 24mm
Safe working tensile load : 121.6Kn
Safe working shear load : 67.2Kn

Sealant

The outside perimeter of the Flexible Stopping can be sealed by spraying or hand scrimming with Aquacrete shot blast products.

Doors

The Flexible Stopping can accommodate man doors.

There are two options available:

- 1800mm x 900mm or 900mm x 900mm 2psi rated metal doors
- 900mm x 900mm Velcro doors

