



Wet-Repel™

Safer... Faster... Stronger

Aquacrete Wet-Repel™ is a water-resistant, single component, high-strength product that provides ventilation control and geology consolidation in underground mines. Developed specifically for applications where conditions may result in erosion from water, Aquacrete Wet-Repel™ achieves a new benchmark in ventilation control performance.



In independent immersion testing, Aquacrete Wet-Repel™ typically absorbs less than 18% water whilst achieving a compressive strength of up to 25 MPa. Overseas research has shown that water absorption in concrete can vary from 15% to 25%. These figures indicate that with respect to water absorption, the performance of Wet-Repel™ is very similar to that of concrete.

As with all Aquacrete products, ease of application is a major benefit of Wet-Repel™. The product can be applied in a single application to any desired thickness and does not slump. It is not necessary to apply a thin spray-on liner prior to or after shot blasting with Wet-Repel™, and as a result of its rapid-setting properties, Wet-Repel™ achieves specified compressive strength in as little as 24 hours.



PRODUCT APPLICATIONS

In addition to addressing more severe gas and water ingress concerns, Aquacrete Wet-Repel™ is increasingly specified by underground mines throughout Australia for a wide range of applications.

These include:

- Rated ventilation stoppings
- Rated ventilation seals
- Non-rated segregation stoppings
- Dam walls
- Bulkheads
- Overcasts and overcast wings
- Rib consolidation and longwall rib consolidation
- Stopping and seal repairs



PRODUCT FEATURES

Safer

- Low toxicity
- Fire resistant
- Anti-static
- Creates an explosion-rated ventilation control device
- Cures to off-white colour

Faster

- Aquacrete Wet-Repel™ can be applied to any desired thickness in a single application
- Aquacrete Wet-Repel™ is rapid-setting and achieves the specified rating within 24 hours and a compressive strength of 17 MPa in as little as 48 hours and up to 25 MPa in 28 days
- Aquacrete Wet-Repel™ does not slump

Stronger

- Aquacrete Wet-Repel™ complies to relevant regulations and standards when shot blasted to a minimum thickness using the Aquacrete VCD installation guidelines
- Product certification has been issued by an accredited National Association of Testing Authorities (NATA) laboratory for over-pressure performance in a live underground blast test

Wet-Repel™ Performance Data



PERFORMANCE PROPERTIES

Compressive Strength	MPa
2 days	17
7 days	17
28 days	25
Shear Strength	kPa
n/a	1.594
Flexural Strength	MPa
2 days	3.2

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 Aquacrete's control.

TESTING AND CERTIFICATION

To ensure that Aquacrete Wet-Repel™ conforms to the most stringent industry standards, testing and certification is undertaken by laboratories approved by the National Association of Testing Authority (NATA). These include SGS Australia Pty Ltd. Relevant certificates are available from Aquacrete on request. For further technical information, please refer to the MSDS.

STORAGE AND PACKAGING

Aquacrete Wet-Repel™ is supplied in 20kg bags on 1.5 tonne pallets or 1 tonne bulk bags. Product referred in gross weight. Product should be stored undercover in dry conditions.

