



OPR2™

Safer... Faster... Stronger

Aquacrete OPR2™ is a rapid-setting, high performance, single component product that provides explosion-rated ventilation control and geology consolidation and sealing in underground mines. Achieving a high early strength, Aquacrete OPR2™ can be applied in a single application to any desired thickness without risk of slumping. As with all Aquacrete products, ease of application is a further benefit of OPR2™.



In addition to consistently exceeding industry overpressure performance standards - achieving up to 24 MPa in 28 days – Aquacrete OPR2™ can be engineered to site-specified overpressures in excess of 100psi. OPR2™'s performance has been verified by full-scale blast testing in an underground mine, the results of which are certified by independent engineering consultants.

Used in more than 80% of underground coal mines and an increasing number of metalliferous mines throughout Australia, Aquacrete OPR2™ consistently conforms to the most stringent industry standards for shot blasted ventilation control devices.



PRODUCT APPLICATIONS

As a result of its superior performance, Aquacrete OPR2™ is specified for a wide range of applications.

These include:

- Rated ventilation stoppings
- Rated ventilation seals
- Overcasts and overcast wings
- Rib consolidation
- Rib highlight
- Cavity filling
- Roof and fall consolidation
- Stopping and seal repairs
- Segregation stoppings
- Artificial pillars



PRODUCT FEATURES

Safer

- Low toxicity
- Specialist training provided
- Fire resistant
- Anti-static
- Creates an explosion-rated gas and air barrier
- Cures to off-white colour

Faster

- Aquacrete OPR2™ can be shot blasted to any desired thickness in a single application
- Aquacrete OPR2™ is rapid-setting and achieves the specified rating within 24 hours and a compressive strength of 15 MPa in as little as 48 hours and 24 MPa in 28 days
- Aquacrete OPR2™ does not slump
- Requires minimal site preparation work

Stronger

- Aquacrete OPR2™ complies to relevant regulations and standards when shotblasted 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 overpressure performance in a live underground blast test
- Has a high bond strength to rock and coal

OPR2™ Performance Data



PERFORMANCE PROPERTIES

Compressive Strength	MPa
2 days	15
7 days	18
28 days	24
Shear Strength	kPa
n/a	851
Flexural Strength	MPa
2 days	2.6

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 & CERTIFICATION

To ensure that Aquacrete OPR2™ 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 OPR2™ 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.

