

OPR2™

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 24MPa in 28 days – Aquacrete OPR2™ can be engineered to site-specified overpressures in excess of 100psi.

Aquacrete OPR2™ 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 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.

APPLICATIONS

As a result of its superior performance Aquacrete OPR2™ can be used for a wide range of applications including but not limited to:

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

PRODUCT FEATURES AND BENEFITS

Safer

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

Faster

- Can be shot blasted to any desired thickness in a single application.
- Rapid-setting and achieves the specified rating within 24 hours and a compressive strength of 15MPa in as little as 48 hours and 24MPa in 28 days.
- Non-slumping
- Requires minimal site preparation work.

Stronger

- Complies with relevant coal mine safety and health regulations when applied to a minimum thickness using the product 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.

PERFORMANCE FEATURES

CHARACTERISTICS	
Form	Powder
Colour	Off-white
Bulk density	1200-1300kg/m ³
Application thickness	As per installation guidelines
PERFORMANCE	
Compressive strength at 2 days	15MPa
Compressive strength at 7 days	18MPa
Compressive strength at 28 days	24MPa
Shear strength	851 kPa
Flexural strength at 28 days	2.6MPa
Flammability	Non-flammable / anti-static

PACKAGING

Aquacrete OPR2™ is supplied in 3 packaging options:

- 20kg bags on 1.5 tonne pallets
- 500kg bags on 1 tonne pallets
- 1 tonne bulk bags

Product referred in gross weight.

STORAGE AND HANDLING

Product should be stored in original, unopened bags undercover in dry conditions.

TESTING & CERTIFICATION

To ensure that Aquacrete OPR2™ conforms to the most stringent industry standards, testing and certification is undertaken by the National Association of Testing Authority (NATA). Relevant certificates are on request.

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 Mineral's control.

Refer to Safety Data Sheet for further information.

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