



Aquacrete®

OPR2



PRODUCT DATASHEET

The Original Aquacrete®

Our original explosion-rated product for ventilation control, geology consolidation, stoppings and seals.

Aquacrete® OPR2 is a rapid-setting, high-performance, single-component product designed for explosion-rated ventilation control and geology consolidation in underground mines. Offering exceptional early strength, it can be applied to any thickness in a single layer without slumping.

Trusted in over 80% of underground coal mines and numerous metalliferous mines, Aquacrete® OPR2 meets the highest industry standards for shot-blasted ventilation control.



FEATURES

- Non-cementitious, ensuring no shrinkage during curing.
- High early strength, reaching 15 MPa in 48 hours and 24 MPa in 28 days.
- Can be shotblasted to any thickness in one application.
- Maintains form without slumping.
- Minimal site preparation required.

- Bonds strongly to rock, coal, and other substrates.
- Explosion-rated gas and air barrier for safety.
- Low toxicity.

APPLICATIONS

- Explosion-rated ventilation seals and stoppings
- Overcasts and overcast wings
- Strata stabilisation
- Cavity filling
- Rib, roof and fall consolidation
- Stopping and seal repairs
- Artificial pillars
- Work area floor levelling.

PERFORMANCE

With anti-static and fire-resistant properties, Aquacrete® OPR2 can be applied to any thickness in a single application. It has a non-slumping formula and strong adhesion, achieving its specified overpressure rating after 24 hours.

Structures can be engineered to meet site-specific overpressure requirements in excess of 100 psi. Performance has been verified by full-scale blast testing in an underground mine, with results certified by independent engineering consultants.

PACKAGING/HANDLING/ STORAGE

Aquacrete® OPR2 is available in:

20kg bags 72 bags per pallet, total gross weight 1.5 tonnes

500kg bulker bags 2 bags per pallet

1 tonne bulker bags 1 per pallet

For optimal performance, store in its original, unopened packaging in a dry, covered area.

QUALITY CONTROL

To ensure Aquacrete® OPR2 meets the highest industry standards, it has been tested and certified by the National Association of Testing Authorities (NATA). Please contact us if you require a copy of the relevant certificates.

TECHNICAL SPECS

Form	Granular powder
Colour	Off-white
Bulk density	1200-1300kg/m ³
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

DISCLAIMER

Performance test results are provided as a guide and may vary depending on site conditions, application methods, installer expertise, and general job site care.

We recommend that users assess the suitability of our products for their specific environment and application. For questions about product specifications, intended use, or best application practices, please contact our technical team at 0417 818 004.

For further details, please refer to the Safety Data Sheet.

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For more information about Aquacrete® products call 0417 818 004,
email sales@aquacrete.com.au or visit aquacrete.com.au

