

## Low density aerated cement

### Uses

Air-O-Cem can be used for general void filling and the construction of lightweight barriers and bulkheads.

Typical applications of Air-O-Cem are for void filling above closed-off arches in tunnel drives or after rockfalls. Lightweight barriers for ventilation control are also easily constructed using Air-O-Cem, or barriers to prevent air-flow to underground fires.

### Advantages

- High yield improves material handling logistics and cost.
- Rapid placement reduces man shifts - typically 50m<sup>3</sup> void filled per shift.
- Remote placement can take place up to 200m from machine.
- Typically 3 people per crew.
- Non-flammable, non-toxic.

### Description

Air-O-Cem is a single component, non-combustible, aerated cement. Supplied as a powder, it readily forms a foamed grout on mixing with water in a purpose designed placer.

### Properties

#### Set Time

Rate of set and strength development will vary according to temperature, density and water/solids ratio used.

#### Water/solids ratio

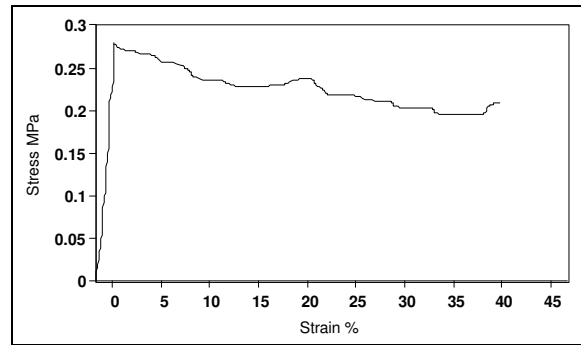
0.8:1 - 1:1

#### Relative density (wet)

0.30 - 0.40 depending on foam machine settings.

### Compressive strength

REVISION 004 (Changed Health & Safety paragraph and Relative density)  
OF 2



0.3 MPa (28 days, density = 0.37)

### Cleaning

All tools and equipment must be washed with water immediately after use.

### Estimating

Pack Size (kgs)	Mix water (litres)	Volume yield (litres)
25	20	125
8 x 25kg yields 1m <sup>3</sup>		

### Storage/Shelf life

Air-O-Cem has a shelf life of 12 months when stored in cool, dry conditions. Avoid storage in direct sunlight to prevent degradation of the packaging.

### Precautions

#### Health and Safety

Air-O-Cem is alkaline. Water-proof gloves, dust-masks and goggles should be worn.

Splashes must be removed from the skin and eyes by washing with clean water. In case of splashes in the eyes, medical attention should be sought immediately.

Refer to Material Safety Data Sheet.

### Technical Support

Minova RSA provides a technical advisory service by a team of specialists in the field. The service includes on site assistance and advice on evaluation trials and laboratory work.

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### Additional information

Minova RSA is a market leader specialising in the supply of high performance chemical products for the mining and tunnelling industries.

The Minova RSA range of mining products includes anchoring and backfill systems, bagged cement products, high yield grouts, mine sealants, equipment and accessories.

### Important note

Minova RSA products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst Minova RSA endeavours to ensure that any advice, recommendation, specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation or information given by it.

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