



SULA SULA (PTY) LTD T/A

# CARBONTECH

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## Void Fill

### Technical Data Sheet

#### Low density aerated cement

#### Uses

Void Fill can be used for general void filling and the construction of lightweight barriers and bulkheads. Typical applications of Void Fill are for void filling above closed-off arches in tunnel drives or after rock falls. Lightweight barriers for ventilation control are also easily constructed using Void Fill, or barriers to prevent air-flow to underground fires.

#### Advantages

- High yield improves material handling logistics and cost.
- Rapid placement reduces man shifts – typically  $60m^3$  void filled per shift.
- Remote placement can take place up to 200m from machine.
- Typically 3 people per crew.
- Non-flammable, non-toxic.

#### Description

Void Fill 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.

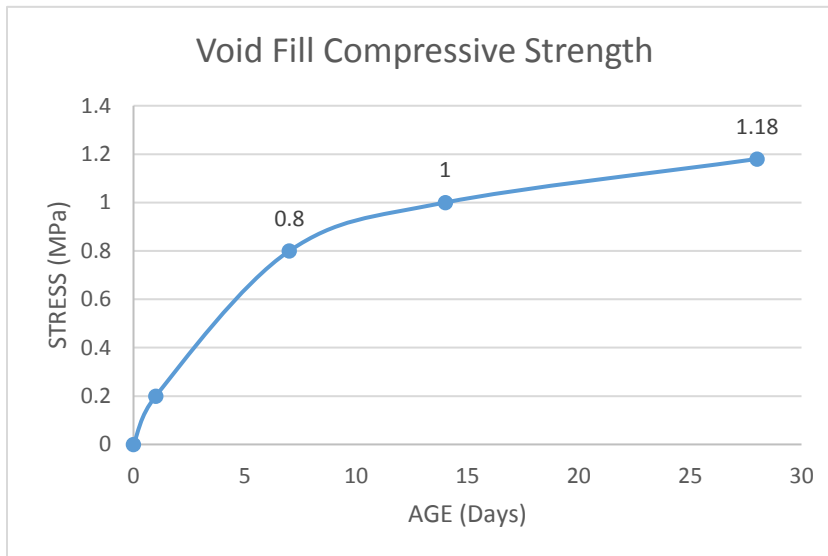
### Water/solids ratio

0.85:1 – 1.2:1

### Relative density (wet)

0.4 – 0.5 depending on foam machine settings

### Compressive strength



7 Days - 0.8 MPa

14 Days - 1 MPa

28 Days – 1.18 MPa

## Cleaning

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

## Estimating

Pack Size (kg)	Mix Water (litres)	Volume yield (litres)
25	25	125
8 X 25kg	200	1000

### **Storage/Shelf life**

Void Fill 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**

Void Fill 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**

Carbontech 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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