



CONSTANT PERFORMANCE

# ACS GROUT TC

## NEW AGE TECHNOLOGY GROUT

### DESCRIPTION

Grout TC is a medium strength, shrinkage compensated (non shrink) Bentonite based cement grout containing a blend of Portland cements, graded fillers and special additives which facilitate controlled expansion in both plastic and hardened states.

Grout TC is supplied as a ready to use powder containing super plasticisers which when mixed with water, produces a free flowing, rammable, pumpable precision grout for use with heat loop systems and other related applications.

### RECOMMENDED USES

Grout TC has been designed for use in the geo-exchange (geothermal) industry specifically to minimize bleed and segregation in grouting and sealing bore holes containing heat loop systems and other related applications.

### ADVANTAGES

- High initial flow and excellent flow retention
- High 28 day strengths and low permeability ensure durability of the hardened grout
- Excellent resistance to sub-terranean minerals, vibration and compression
- Chloride free, non-corrosive to steel, iron or copper
- Pre-packaged ready to use grout to ensure batching and blending consistency and error-free on-site convenience
- Ideal for pumping, ramming and pouring in a number of environmental conditions including geothermal applications.

### MIXING

Grout TC should be mixed using a high speed drill and spiral mixer, mechanical grout mixer, or a suitable high shear drum mixer. **DO NOT MIX MATERIAL BY HAND.**

Because continuous grout flow is essential, ensure that the mixing method and labour is sufficient to enable continuity of the operation.

Add the correct measured water content into the mixing vessel, to achieve the selected consistencies. the amount of clean water to be added per 20kg bag should be 5.0 - 5.5 litres.

Consistency	Litres of Water
Flowable	5.0 litres / 20kg bag
Fluid	5.5 litres / 20kg bag

Slowly add the total contents of the Grout TC bag and mix continuously for 3 - 5 minutes until a smooth and even consistency is obtained. Allow to stand so any entrapped air can escape to the surface.

### TEMPERATURE AND WORKING LIMITATIONS

For maximum performance, it is important to maintain the grout, heat loops or other relevant grout contactable material within a temperature range of 18 - 25°C prior to, during and 48 hours following placement of the grout.

Grouting should not take place if the temperature is 5°C or lower. Warm water can be used to accelerate strength development during colder weather.

When temperatures exceed 30°C, grouting should be sheltered from the heat or conducted early morning. Keep materials cool and use cold water in the mix.

### CLEANING

All tools should be rinsed with water immediately after use to remove all traces of Grout TC.

### TECHNICAL PROPERTIES

Form	Grey Powder
Bulk Density	~ 2000kg/m <sup>3</sup>
Yield per 20kg	12 - 12.5 litres
Potlife @ 23°C ± 2°C	20 - 30 minutes
Flow	<30 sec (ASTM 939-02)
Specific Gravity	1.95 - 2.05 (RS-TM-03)

**Compressive Strength (MPa)**  
**AS2350.11 and AS2350.12 AS1478 App A**

Age	Results (@ Fluid Consistency)
1 day	Minimum 5MPa
7 days	Minimum 10MPa
28 days	Minimum 20MPa

**HEALTH AND SAFETY**

During use, avoid inhalation of dust and contact with the skin and eyes. Wear suitable clothing, gloves, eye protection and respiratory protective equipment.

If contact with the skin occurs, thoroughly clean the area with plenty of fresh water and soap. In case of contact with the eyes rinse with plenty of fresh water and seek medical advice.

If swallowed, seek medical attention immediately - do not induce vomiting.

For further information consult the Material Safety Data Sheet (MSDS) and read the product label carefully before use.

MSDS documents are available by phoning 1800 077 744.



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PLEASE NOTE

The information given in this data sheet is based on our current knowledge of the product when properly stored, handled and applied. We cannot guarantee that the product will be suitable, effective or safe when used for any purpose other than its stated uses.

To the extent that it is lawful, we exclude warranties implied by law and limit our liability to the cost of replacing the product. We accept no responsibility for loss or injury caused by improper use, incompetent preparation, inexpert or negligent application, or ordinary wear and tear.

Service or advice given by our staff should not amount to responsibility for the project - since the owner, or their contractor (and not River Sands), is responsible for procedures relating to the application of the product.

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