

## DESCRIPTION

*Construction Grout* is a versatile, non-shrink cement based grout. It is supplied as a ready to use powder, which is made up of a blend of Portland cement, pozzolanic material, graded fillers and chemical additives.

## USES

*Construction Grout* can be used for general purpose grouting where it is necessary to eliminate shrinkage. However it is specifically designed as a 'dry pack' or 'rammable' grout.

*Construction Grout* can be used in the following situations:

- Tilt up concrete panels.
- Precast structures such as columns and footings.
- Stanchion and bearing plates for columns and machinery bases.
- Patching bolt holes and formwork defects.
- Grouting cable bolts in mining applications (coal and metalliferous).
- Used in underpinning.

## ADVANTAGES

- Prepacked for ease of use, just add required water.
- Excellent strength properties to ensure the durability of the product.
- Good moulding characteristics with reduced slump.

## STANDARDS

*ACS Construction Grout* meets the following standards: ASTM C1107-02 (Type A) and AS 1478.2 – 2005.

## PROPERTIES

Consistency	Compressive Strength, MPa		
	1 Day	7 Days	28 Days
Stiff	20	40	55
Plastic	15	35	50

## PLASTIC DENSITY

Approximately 2100kg/m<sup>3</sup> depending on consistency used.

## APPLICATION INSTRUCTIONS

### PREPARATION

The foundations or void to be filled should be clean, well roughened and pre-saturated with water. Eliminate external sources of vibration or movement until the grout hardens.

### MIXING

Depending on the quantities required, use either a paddle mixer or a heavy-duty variable speed electric drill (ie: Festo grout mixer).

Pour the required water content into the appropriate mixing vessel (minimum 25 litre capacity) and slowly add the contents of the *Construction Grout* bag. Mix for approximately five minutes or until lump free.

### WATER CONTENT

The actual amount of water will depend on the desired consistency required for the job. The content of the water required will vary depending on the ambient temperature when the job is being carried out. For any given consistency, more water will be required at high temperatures and less at low temperatures.

To assist with water content, the following guide can be used for 20 kg of grout mixed at 20°C:

Consistency	Litres/20kg Bag
Stiff	3.7 – 3.9
Plastic	4.0 – 4.2

**Note:** When mixing water content, care should be taken that the amount used will not cause the mixed grout to bleed excessively or segregate.

## PLACEMENT

*Construction Grout* should be placed as soon as possible after mixing (Within 20 minutes at 23°C).

As a 'dry pack' apply the grout by placing and tamping the grout into the void. This is best achieved by applying the grout in layers of approximately 20mm. Then using a wooden ramming tool, tamp into place ensuring complete compaction.

## CURING

On completion of the grouting process, areas that are exposed should be thoroughly cured. Using a curing compound or the continuous application of water for a period of seven days will provide the best results.

## ESTIMATING DATA

A 20kg bag of *Construction Grout* when mixed with 3.7 litres of water, will yield approximately 10 litres (0.010m<sup>3</sup>).

## STORAGE

*Construction Grout* will keep for up to 12 months if kept in a dry store and the bags remain sealed. High temperature and high humidity conditions may reduce the storage life of the product.

## PRECAUTIONS

*Construction Grout* contains cement powders which can be harmful to the skin. 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** and read the product label carefully before use. **Material Safety Data Sheets** are available by phoning **1800 077 744**.

**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.



**Applied Concrete Solutions**  
A Division of River Sands Pty Ltd  
683 Beenleigh Redland Bay Rd,  
Carbrook Qld 4130  
Ph: 07 3287 6444 Fax: 07 3287 6445  
Sydney: (02) 9756 1711  
Melb: (03) 9311 9225  
Perth: 0423 023 164  
Toll Free Helpline: 1800 077 744  
[www.appliedconcretesolutions.com.au](http://www.appliedconcretesolutions.com.au)