



CONSTANT PERFORMANCE

# ACS CONSTRUCTION GROUT

## NEW AGE TECHNOLOGY GROUT

### DESCRIPTION

ACS 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

ACS 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.

ACS 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
- 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.

### TECHNICAL PROPERTIES

| Compressive Strength (MPa) |       |        |         |
|----------------------------|-------|--------|---------|
| Consistency                | 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 (i.e. Festo grout mixer).

Pour the required water content into the appropriate mixing vessel (minimum 25 litre capacity) and slowly add the contents of the ACS 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

ACS 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.