

**MINING / CONSTRUCTION**

**Capcem™ BPG (Bunton Pocket Grout)**

**FREE - FLOWING NON-SHRINK GROUT**

**DESCRIPTION**

Capcem™ BPG is supplied as a ready-to-use dry powder requiring only the addition of water to produce a free-flowing, non-shrink grout. The material is a blend of Portland cements, pre-graded fillers and additives which impart controlled expansion in the plastic state whilst minimising water demand and ensuring high early strength and durability. The filler grading is designed to aid uniform mixing and minimise segregation and bleeding.

**APPLICATION AND USE**

For the grouting and securing of bunton steelwork and brattice walls during shaft equipping and repair.

**ADVANTAGES**

- Shrinkage Compensation - Gaseous expansion system compensates for shrinkage and settlement in the plastic state
- Reliability - Site batching variations eliminated by the use of factory controlled pre-packed materials.
- High Early Strength - Facilitates early stripping of shutters
- Durability - High ultimate strength and low permeability ensures long term performance in service
- Chloride Free – inhibits corrosion.



**TECHNICAL DATA**

**COMPRESSIVE STRENGTH**

Tested in accordance with BS1881 at water powder ratio of 0.27 (100mm cubes, wet cured at 25°C).

Curing Age	Compressive Strength	Unit
1 Hour	0.3	MPa
12 Hours	3.5	MPa
24 Hours	9.0	MPa
28 Days	55.0	MPa

**FLEXURAL STRENGTH**

4.5 MPa at 28 days.

**FRESH WET DENSITY**

1860 kg/m<sup>3</sup>

**SETTING TIME**

Dependent on temperature, typical values are as follows.

Grout Temperature	Setting Time (BS 5075)	
	Initial	Final
25°C	40 Minutes	75 Minutes
10°C	2 Hours	3 Hours

**EXPANSION CHARACTERISTICS**

Controlled expansion occurs in the unset material to ensure that the grout when cured will continue to occupy its original volume within the confines of the void in which it was placed.

**APPLICATION METHOD**

- For best results, a mechanically powered grout mixer should be used.
- For quantities up to 50 kg a slow speed drill (500 rpm) fitted with a spiral or whisk paddle is suitable.
- The quantity of water required to achieve the desired consistency is precise. Each 25 kg bag requires 7 litres of water.
- Place the specified amount of water in the mixer and slowly add the Capcem™ BPG mixing continuously making sure that a smooth, even mix is obtained.
- Do not add extra water. The total mixing time is four minutes.
- The equipment can be cleaned with water immediately after use. Cured material can only be removed by mechanical means.

**SAFETY INSTRUCTIONS AND LIMITATIONS**

Capcem™ BPG is non-toxic, but it is alkaline in nature. Gloves should be worn. Splashes of grout to the skin and eyes should be washed off with clean water. In the event of splashes in the eyes or prolonged skin irritation, seek medical attention.

When the air contact surface temperatures are 10°C or below on a falling thermometer, warm water (30 - 40°C) is recommended to accelerate strength development. Normal precautions for winter working with cementitious materials should be adopted.

Capcem™ BPG should not be applied below 3°C

At ambient temperature above 40°C, cool water (below 20°C) should be used for mixing the grout prior to placement.

**PACKAGING AND TRANSPORTATION**

Packaging	Yield
25 kg	16 Litres

**STORAGE AND SHELF LIFE**

Capcem™ BPG has a shelf life of 12 months if kept in a dry store in sealed bags. If stored in high temperature and high humidity locations, the shelf life may be reduced.

**DISPOSAL**

Follow local regulations.

**DISCLAIMER**

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