

# FLOWFILL GROUT GP

## MULTI PURPOSE NON SHRINK CEMENTITIOUS GROUT

29 May 2020

### YOUR SMART ADVANTAGES

- Pre-hardening volume-adjusting. Controlled gaseous expansion system compensates for shrinkage and settlement before hardening occurs.
- Ready to use, pre mixed, requires only the addition of water
- Can be pumped, trowelled, rammed or flowed to areas where normal grouting methods do not suffice.
- Can be mixed for stiff, plastic, flowable or fluid application
- No metallic iron content to cause staining
- Lower water/cement ratio reduces drying shrinkage, increases durability and reduces permeability

### DESCRIPTION

A general purpose non-shrink (Class A) cementitious grout ideal for most void filling grouting jobs.

### APPLICATION

Application thickness 10mm – 120mm

### USES

All general purpose grouting  
 Precast and pre stressed panels  
 Grouting in column bases  
 Filling core holes, rod holes and defects in concrete  
 Filling for hollow block walls  
 Caulking of joints and pipes

### PRODUCT INFORMATION

Colour	Grey
Viscosity	Stiff, Plastic, Flowable, Liquid
Composition	Powder
Pouring Temp	20 °C
Product Code 20kg bag	30840122

### TYPICAL PERFORMANCE DATA (approx.)

Specification	ASTM C191-08 ASTM C1107/C1107-11 ASTM C940-98a AS 1478.2-2005 AS/NZS 2350.11
Application Thickness	10 to 120mm
Initial set time*	
Stiff	2.5 hours
Flowable	4 hours
Plastic	4.5 hours
Liquid	5 hours
* Tested in accordance to ASTM C191-08	
Final set time*	
Stiff	3.5 hours
Flowable	5 hours
Plastic	7 hours
Liquid	8 hours
* Tested in accordance to ASTM C191-08	
Consistency*	
Stiff	3 litres with the addition of water
Plastic	3.1 to 3.6 litres with the addition of water
Flowable	3.6 to 4.0 litres with the addition of water
Liquid	4.0 to 4.4 litres with the addition of water
* Consistency is in accordance to ASTM C1107/C1107-11 & AS 1478.2-2005	
Expansion Time*	
Start	15 mins
Finish	2-3 hours
* Tested in accordance to ASTM C940-98a (re-approved 2003)	
Coverage	
Stiff	10.5 to 11 litres/ 20kg
Flowable	10.5 to 11 litres/20kg
Plastic	11 to 11.5 litres/20kg
Liquid	11 to 11.5 litres/20kg

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Fresh wet density	2,100 Kg per m <sup>3</sup> depending on actual consistency used			
Bags per m <sup>3</sup>	85 to 95 bags depending on consistency used			
Compressive Strength*				
CONSISTENCY	WATER ADD.	MPa		
		Litres	24 hours	7 days
Stiff	3	30-40	60-75	75-85
Plastic	3.1-3.6	25-30	50-60	65-75
Flowable	3.6-4.0	20-25	35-40	50-60
Liquid	4.0-4.4	15-20	30-40	40-50

## DIRECTIONS FOR USE

Read and understand the Safety Data Sheet before using this product. SDS can be acquired by visiting [www.bostik.com.au](http://www.bostik.com.au) or by scanning the relevant QR code on pack.

## APPLICATION INSTRUCTIONS

### SUBSTRATE & SURFACE PREPARATION

The substrate surface must be clean, sound and free from oil, grease, curing compound or any loose materials. It must be mechanically abraded back to a sound concrete surface. Bolts or anchor holes must be clean and free from dust or loose material. This can be achieved by blowing clean the hole. Base plates must be cleared of all rust, oil or grease. It is essential to provide air pressure relief holes for venting.

### Pre-Soaking

It is essential to pre-soak the concrete substrate prior to application of Bostik Flowfill Grout GP. Pre-soak substrate with water for a minimum of 6 hours prior to grouting. Immediately before pouring, the excess water should be removed. In the case of bolt/anchor holes, the holes must be blown out to ensure no traces of free water are present whilst grouting.

### Formwork

Formwork must be constructed to facilitate rapid and continuous filling, whilst remaining leak proof and water tight. Foam rubber strips or suitable sealants underneath the formwork are recommended.

### Unrestrained Surface

As Bostik Flowfill Grout GP is an expanding grout, it is advisable not to have any unrestrained areas.

### Low Temperature Working

At temperatures below 5°C the cure rate and strength development rate will be dramatically reduced. If early strength is required, it is advisable to use heated water and condition Bostik Flowfill Grout GP to 25°C. Do not exceed this temperature.

### High Temperature Working

At temperatures above 30°C, it is advisable to use water below 20°C when mixing grout. All materials must be kept cool and away from direct sunlight. If practical, the installation area should be shaded by erecting shade

screens. If ambient temperatures are excessive, grouting should be scheduled for early morning or late afternoon.

### Mixing

Bostik Flowfill Grout GP requires between 3 - 4.4 litres of potable water per 20kg bag, depending on the desired consistency. For optimum results, use a cage or impeller style mixing stirrer powered by a heavy duty electric mixing drill. Care is to be taken while mixing to avoid the formation of air bubbles. Add pre-measured water to a clean mixing bucket. Gradually add powder into the water whilst continuously mixing the contents of the bucket. When the entire contents of the bags have been added to the water, mix for a further 3 - 5 minutes to achieve maximum results. Mix product must be smooth, lump free and homogenous consistency.

It is essential that the grouting operation is continuous hence ensure sufficient labour and mixing capacity is available.

### Pouring

The desired ambient temperature for pouring is approximately 20°C. At this temperature it is essential the grout is placed within 25 minutes of mixing as this will ensure the expansion process is maximised. Ensure the entire area to be grouted is completely filled. We advise the following:

- Use a suitable head box to ensure continuous flow of grout
- Place/ pour grout from one side, minimizing the likelihood of trapped air
- The grout head must be maintained at all times so that a continuous grout front is achieved
- Do not use mechanical vibrators to assist in flow as this will cause segregation of aggregate
- Discard any material that shows signs of stiffening

### Curing

On completion of grouting the exposed area should be covered with wet hessian, plastic sheeting or Bostik Bond 'N' Cure to prevent excessive moisture loss. At ambient temperature, formwork should be removed no sooner than 24 hours after completion of grouting. The covering should stay in place for a further 6 days. Lack of sufficient curing could result in plastic cracking and drying shrinkage on the surface.

### LIMITATIONS

- Do not mix by hand
- Do not add additional water
- Do not use mechanical vibrators to assist in flow as this will cause segregation of aggregate.
- The use of spiral mixers is not recommended as they can result in aeration of the grout
- Discard any unused grout that has stiffened or hardened
- Do not retemper

### CLEANING

Bostik Flowfill Grout GP should be removed from tools and equipment with clean water immediately after use.

# FLOWFILL GROUT GP

## STORAGE AND SHELF LIFE

Must be stored in a cool, dry elevated place and protected from high humidity. Shelf life is 12 months in unopened bag.

## DISPOSAL

Empty bags may be disposed via local landfill. Dispose of according to local authority regulations. Do not dispose of down drains or into local waterways.

## VOC INFORMATION

1g/litre

## SAFETY DIRECTIONS

Keep out of reach of children. Read label before use. Do not breathe dust, fume, gas, mist, vapours or spray. Wash hands, face and all exposed skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective clothing, gloves, eye/face protection and suitable respirator.

**CAUSES SKIN IRRITATION.**

**CAUSES SERIOUS EYE DAMAGE.**

**MAY CAUSE RESPIRATORY IRRITATION.**

**MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE.**

## FIRST AID

**Swallowed:** If swallowed, do NOT induce vomiting. Give a glass of water.

**Skin:** If skin contact occurs, remove contaminated clothing and wash skin thoroughly.

**Inhaled:** Remove from contaminated area. Apply artificial respiration if not breathing.

**Eyes:** If in eyes, hold eyes open, flood with water for at least 15 minutes.

## PRECAUTIONS IN USE

Complete details on each of the products mentioned are available on the product Safety Data Sheets. To ensure no harm is caused to persons using Bostik products, it is recommended that all concerned read the appropriate Safety Data Sheets. Visit [www.bostik.com/au](http://www.bostik.com/au) for copies.

**For emergency information contact the Poisons Information Centre, phone 131 126 or the Emergency Response Service, phone 1800 033 111.**

BOSTIK HOTLINE

Smart help 1800 267 845



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