



Technical Data Sheet

Flowfill Grout GP

Multi Purpose Non Shrink Cementitious Grout

DESCRIPTION

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

APPLICATION

Application thickness 20mm-120mm

FEATURES

- ✓ 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

RECOMMENDED 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



APPLICATION INSTRUCTIONS

SUBSTRATE AND 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.





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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, mixing should be performed using a forced action high shear stirrer powered by a heavy duty electric mixing drill.

- 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.

Consistency	Water Addition (Litres)
Stiff	3 Li
Plastic	3.6 Li
Flowable	4.0 Li
Fluid	4.4 Li

* Consistency is in accordance to ASTM C1107/C1107-11 and AS 1478.2-2005 Table 4.1.2.2

CAUTION

DO NOT MIX BY HAND

DO NOT ADD ADDITIONAL WATER

Discard any unused grout that has stiffened or hardened. DO NOT RETEMPER.

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.



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Flowfill Grout GP

PROPERTIES

APPLICATION THICKNESS

20mm - 120mm

SET TIME

Consistency	Initial Set	Final Set
Stiff	2.5 hours	3.5 hours
Plastic	4 hours	5 hours
Flowable	4.5 hours	7 hours
Fluid	5 hours	8 hours

* Tested in accordance to ASTM C191-08

TIME FOR EXPANSION

Start : 15 mins
Finish : 2 - 3 hours

* Tested in accordance to ASTM C940-98a (re-approved 2003)

COMPRESSIVE STRENGTH

Consistency	Water Addition (Litres)	MPa		
		1 day	7 days	28 days
Stiff	3 Li	40	75	85
Plastic	3.6 Li	30	60	75
Flowable	4.0 Li	25	45	60
Fluid	4.4 Li	20	40	50

* Tested in accordance to AS/NZS 2350.11

COVERAGE

(Litres per 20kg bag)

Consistency	Yield (Litres)
Stiff	10.5 - 11
Plastic	10.5 - 11
Flowable	11 - 11.5
Fluid	11 - 11.5



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FRESH WET DENSITY

Approx 2100 Kg/m³ depending on actual consistency used

BAGS REQUIRED PER CUBIC METRE

85 - 90 bags depending on actual consistency used

PACK SIZE

20kg

STORAGE & SHELF LIFE

Flowfill Grout GP has a shelf life of approximately 12 months in unopened bag. Must be stored in a cool, dry elevated place and protected from high humidity.

SAFETY PRECAUTIONS

SEE THE MATERIAL SAFETY DATA SHEET FOR ADDITIONAL INFORMATION.

EMERGENCY INFORMATION: 1800 033 111 (ALL HOURS)

MSDS can be downloaded from www.bostik.com.au

CLEAN-UP

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

VOC – 1 G/LT

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PRODUCT DETAILS

ITEM NO	ITEM NAME	SIZE
267759	FLOWFILL GROUT GP	20 KG
376833	FLOWFILL GROUT GP (WA)	20 KG





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BOSTIK PRODUCT GUARANTEE

This product comes with consumer guarantees that cannot be excluded under the Australian Consumer Law (ACL). In addition to your rights as a consumer under the ACL or other laws, Bostik guarantees the performance of this product for 10 years if the product is used within its shelf life and in accordance with the usage instructions printed on this packaging or the product's Technical Data Sheet available on our website. This 10 year guarantee specifically excludes any loss or damage caused by incorrect usage and covers the removal and replacement of the affected materials if the failure is proven to be directly related to Bostik products within the warranty period.

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Quality endorsed ISO9001 (Thomastown site)
TS16949 (Automotive)

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