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# ARDEX BG 100 GP

## High Strength Non-shrink Grout

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Ready and easy to use

Suitable for pumping or pouring application

Cementitious Grout for bedding, filling and grouting application

High flow characteristics and adjustable consistency

Minimal downtime

High early and ultimate strength

Dual shrinkage control

Chloride-free composition

Rapid installations and early operation



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### DESCRIPTION

ARDEX BG 100 GP is a cementitious shrinkage compensated grout for all needs.

Special additives in ARDEX BG 100 GP minimise the water demand while improving the flowability of the grout, thus producing a flowable, non-shrink grout for thickness from 10mm to 50mm.

### APPLICATIONS

- Precast wall panels, beams, columns
- Handrail fixing
- Pressure grouting
- Void filling
- Concrete repairs
- Concrete anchors
- Bridge bearing

### FEATURES & BENEFITS

- Dual shrinkage control
- Suitable for pumping or pouring
- Chloride-free composition allows high early strength development
- Rapid installations and early operation
- Does not contain iron which may cause staining

### SUBSTRATE PREPARATION

All surfaces must be clean and sound and free from all surface laitance, oil and grease. Acid etching or grinding may be used to remove cement laitance. The substrate should be presoaked several hours before grouting. Prior to grouting, any free water should be removed and particular care must be taken to blow out water in all bolt holes and pockets.

### FORMWORK

The formwork should be constructed to be tight and strong. This can be achieved by using foam strips or a suitable joint sealant. Generally, a gap width between the perimeter formwork and the plate edge should not exceed 150mm on the pouring side and 50mm on the opposite. It is advisable to have no gap at the remaining sides (flush to the plate edge) provide a head box of at least 150mm height, along the entire pouring side, to allow for sufficient build up of head when grouting.

### APPLICATION

Semi-Precast (Trowelable)

ARDEX BG 100 GP must be mixed with correct

proportion of water to produce a plastic consistency suitable for dry packing or trowel applications while maintaining the performance of the grout.

### Flowable

Ensure that the necessary formwork is firmly in place and water tight. Any bolt pockets must be grouted prior to grouting between the substrate and the base plate.

Pour ARDEX BG 100 GP immediately & continuously after mixing. During the pouring process, ensure that a good hydrostatic head is maintained to keep the flow of the grout continuous and entrapped air & pre-soaking water displaced by the grout is allowed to escape. Use a rod to assist in placement. For larger pours, the grout shall be placed via pumping through hoses.

ARDEX BG 100 GP may be applied in a thickness up to 50mm in one pour. For areas where the thickness exceeds 50mm, it is desirable to add clean, washed 6-10mm aggregate to minimise heat build up.

### MIXING

Mix ARDEX BG 100 GP in a mechanically powered grout mixer or by slow speed drill. Place the specified quantity of water in the mixer. Slowly add the contents of ARDEX BG 100 GP and ensure continuous mixing for at least 5 minutes until a smooth, even consistency is achieved.

Accurate and consistent mixing duration is recommended for each operation to obtain the desired result. Note that the amount of water must be predetermined to the particular application prior to mixing to ensure no bleeding. Excessive water may render lower performance of the non-shrink grout. The mixed grout should be used within 15 minutes of mixing.

### DRYING

On completion of the grouting operation, exposed areas should be thoroughly cured by means of ARDEX curing membrane, continuous application of water and/or wet hessian.

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### COVERAGE

Semi Precast (Trowelable):

Approx. 12.5 litres/25 kg when mixing with water volume of 3.0–3.3 litres.

Flowable:

Approx. 13.5 litres/25 kg when mixing with water volume of 4.5 – 4.75 litres.

### TECHNICAL DATA

	Semi Precast	Flowable
Setting Time (ASTM C953):	Initial: > 1 hr final: < 10 hrs	initial : > 1 hr final: < 10 hrs
Compressive Strength - 7 days - 28 days	(ASTM C109): >80 N/mm <sup>2</sup> >100 N/mm <sup>2</sup>	(ASTM C942): >80 N/mm <sup>2</sup> >100 N/mm <sup>2</sup>
Flow consistency:	(ASTM C1437): 35 - 60%	(ASTM C939): ≤ 60 sec
Bond strength at 28 days:	(EN 12615): ≥ 1.5 N/mm <sup>2</sup>	–
Flexural Strength	≥ 8	
Bleeding (ASTM C940):	0 % after 3 hours	
Unstrained Expansion:	0 - 3 % @ 3 hours	
Volume change: (ASTM C827):	0 - 3 % @ 3 hours	

### PACKAGING

ARDEX BG 100 GP is packed in paper sacks incorporating a polyethylene liner – net weight 25kg.

### STORAGE AND SHELF LIFE

This product must be stored in unopened packaging, clear of the ground in cool dry conditions and be protected from excessive draught.

If stored correctly, as detailed above, the shelf life of this product is 12 months from the date shown on the packaging.

### SAFETY PRECAUTIONS

Avoid contact with skin and eyes; in case of contact with the eyes, rinse immediately with plenty of water

and seek medical advice; wear suitable gloves and keep the product out of the reach of children. For further safety data, consult the Safety Datasheet available online at [www.ardex-quicseal.com](http://www.ardex-quicseal.com).

### DISCLAIMER

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