



ARDEX BG 70 GP

High Flow Non-shrink Grout

Ready and easy to use

Suitable for trowelled or spray applied

Cementitious Grout for bedding, filling and grouting application

Suitable for pumping or pouring application

Minimal downtime

High early and ultimate strength

Positive expansion

Rapid installations and early operation



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ARDEX BG 70 GP

High Flow Non-shrink Grout

DESCRIPTION

ARDEX BG 70 GP is a cementitious shrinkage compensated grout for all needs.

Special additives in ARDEX BG 70 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

FEATURES & BENEFITS

- Positive expansion
- 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 70 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 70 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 70 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 70 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 70 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 5 litres.

TECHNICAL DATA

	Semi Precast	Flowable
Setting Time (ASTM C953):	Initial: > 1 hr final: < 10 hrs	initial : > 1 hr final: < 10 hrs
Compressive Strength at 28 days	(ASTM C109): >70 N/mm ²	(ASTM C942): > 70 N/mm ²
Flow consistency:	(ASTM C1437): 30 - 60%	(ASTM C939): approx. 30 sec
Bond strength at 28 days:	(EN 12615): ≥ 1.5 N/mm ²	–
Bleeding (ASTM C940):	0 % after 3 hours	
Unstrained Expansion:	1 - 3 % @ 3 hours	
Volume change: (ASTM C827):	0 - 3 % @ 3 hours	

PACKAGING

ARDEX BG 70 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 fur-

ther safety data, consult the Safety Datasheet available online at www.ardex-quicseal.com.

DISCLAIMER

The technical datasheets are based on the latest information and given in good faith and represent the best of our knowledge and experience at the time of printing. They are primarily offered for user's consideration and evaluation. It is the responsibility of the user to conduct their own tests to validate the suitability of the products. It is also the responsibility of the user to ensure that the products are used and handled correctly and in accordance with any applicable standards, the product instructions and recommendations and only for the uses they are intended. As we have no control over site conditions and the execution of the work, we accept no liability for any loss or damage which may rise as a result thereof. We also reserve the right to update the information at any time without prior notice to you to reflect our ongoing research and development program.

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May 2023 T