

L2 HIGH FLOW Non-Shrink Grout

L2 High Flow is a specially formulated pre-mixed cementitious grout powder. It is a blend of selected cements, graded silica sand and compatible admixtures, which when mixed with water produces a high strength grout with exceptional flow properties.

USES

For precision, high performance, grouting underneath machine bases, structural steelwork, crane rails, bridge seats etc. For grouting precast concrete units, anchor bars, repairing concrete structures and void filling.

L2 High Flow has been successfully used in many demanding applications in the nuclear, petrochemical, power generation, steel, transportation and engineering industries.

SPECIAL PROPERTIES

- High strength
- Non-shrink
- High flowability retention
- Durable
- Non metallic
- Impressive track record
- Quality assured factory blend
- Chloride free

METHOD OF USE

Reference should be made to the current Instructions For Use and Typical Specification No. 105. Apply the grout to sound, clean and dust free surfaces. Concrete should be roughened to provide a good key. Shutters should be of adequate strength, securely anchored and sealed to prevent leakage. Care should be taken to ensure that the shutters provide sufficient head. Concrete substrate surfaces should be soaked continuously with water for six hours before applying the grout. Surplus water in anchor pockets should be removed.

Water Addition Rate per 25 kg bag	
Pourable Consistency	3.75 litres
Flowable Consistency	4.25 litres
Fluid Consistency	4.75 litres

Measure the appropriate amount of water (see table above) into the mixer. Slowly add the complete bag of **L2 High Flow** powder. When mixing more than one bag together in a mix add the water before each bag.

Mix continuously for 3 minutes to a smooth consistency. Mixing is best achieved using an approved mechanically powered mixer or an Armorex Mixing Paddle clamped into a slow speed drill. Do not exceed the maximum water content given in the table above.

Pour the mixed grout from one side only to avoid trapping air and water.

To cure properly, spray **Proseal** curing agent on to the exposed surfaces of **L2 High Flow**. Later when the shutters are removed moisten the surfaces then exposed and spray with **Proseal**.

Below 5°C or above 25°C reference should be made to Armorex Technical Note No.1 (Grouting in Cold Weather) or No.2 (Grouting in Hot Weather).

TECHNICAL DATA

Depth: Minimum section thickness 10 mm.
Maximum section thickness 100 mm.
Where the section thickness is greater than 100 mm refer to the technical data sheet for Armorexcrete.

Department of Transport specification: Conforms to Department of Transport Specification Clause 2601, 6th and 7th Editions.

Average Compressive Strength in N/mm ² tested to BS 1881:Part 116:1983.						
Consistency	Age (days)					
	1	3	7	14	28	56
Pourable	42	56	68	74	77	79
Flowable	40	54	65	71	74	76
Fluid	30	50	60	67	70	73

Flexural Strength: 8.0 N/mm² at 7 days
10.5 N/mm² at 28 days.

Direct Tensile Strength: 2.0 N/mm² at 7 days
3.5 N/mm² at 28 days.

Flow Tested to BS 4551:1980: Part 12	
Consistency	Flow mm
Pourable	265-290mm
Flowable	290-325mm
Fluid	325-350mm

Flowable Life: Fluid Consistency at 20°C, 2 hours.
3 hours if continuously agitated.

Ultimate Anchorage Bond Strength: 6.7 N/mm².

Tensile Splitting Strength: Tested to BS 1881:Parts 111,114 and 117:1983
5.05 N/mm² at 7 days.

Young's Modulus: 29 kN/mm².

(See over page for further technical data)

Setting Times:	Tested to BS 4550:Part 3: 1978 Section 3.6: At 20°C. Initial Set 5 hours Final Set 7 hours.
Wet Density:	2180 kg/m ³ at Fluid consistency.
Potable Water:	Listed by the UK Fittings Byelaws Scheme. Approval number 8811506.
Flow Cone Test:	Tested to ASTM Standard C939-87. Efflux times at Fluid consistency when mixed with mixer approved by Armorex 20°C 33 seconds 5°C 33 seconds. Note: Temperatures as defined by Department of Transport Specification, Dec. 1991, Clause 2601.4(ii)(c)&(d).
Resistivity:	4536 Ohm.cm. at 28 days by Wenner 4 probe method.
Yield:	25 kg of grout powder yields 13½ litres of fluid grout. 1850 kg yields 1 m ³ of fluid grout.
Packaging:	L2 High Flow grout is supplied in 25 kg bags.
Shelf Life:	12 months when stored in dry conditions in original unopened containers.
Safety:	L2 High Flow contains cement and thus is alkaline in contact with water. Prolonged exposure to the skin should be avoided.

SPECIFICATION CLAUSE

"Grouting shall be carried out using Armorex L2 High Flow in accordance with the manufacturers current technical data sheet and Instructions For Use. The grout shall be non-shrink, high fluidity material with a flowable life of at least 2 hours (non-agitated) and a compressive strength of 50 N/mm² after 3 days. Material requiring site batching shall not be approved.

The supplier shall be a Registered Firm to BS 5750:Part 1:1987."



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