

## L5 PENETRATING Non-Shrink Grout

**L5** is a specially formulated pre-mixed cementitious grout powder which when added to water produces a consistently reliable non-shrink, high strength material, with good mixing and fluid flow characteristics for small section thicknesses.

### USES

**L5** is applied into annulus voids and under baseplates where clearances are from 5mm to 25mm and for repair to cracked concrete by pumping or pouring into the crevice. **L5** is used as a void filler, its penetrating properties making it ideal for grouting up aggregates to produce an "in situ" concrete. For grouting bolts horizontally or in fissured substrates refer to the technical data sheet for Armorex **L4**.

### SPECIAL PROPERTIES

- High strength
- Non-shrink
- Ease of use
- Durable
- High bond strength
- Non metallic
- Quality assured
- Chloride free

### METHOD OF USE

Reference should be made to the current Instructions For Use. For crack sealing reference should additionally be made to Typical Specification No. 115. 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 foundation surfaces should be soaked continuously with water for several hours before applying the grout. Surplus water in anchor pockets should be removed.

To produce fluid consistency measure 4.95 litres water per 15kg bag **L5**. Do not exceed this water quantity. Slowly add the complete bag of **L5** powder. When mixing more than one bag at a time add the water before each bag. Mix continuously for 3 minutes to a smooth consistency.

Mixing is best achieved using a mechanically powered grout mixer or an Armorex Mixing Paddle clamped into a slow speed drill. Pour **L5** from one side only to avoid trapping air or water. Pour or pump into cracks greater than 1mm wide. For finer cracks use Armorex **E2**. Spray **Proseal** curing agent on to exposed surfaces of **L5** without delay. Later when the shutters are removed moisten the exposed surfaces 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

**Section:** Maximum 25mm.  
**Thickness:** Minimum for structural load 5mm.  
 Minimum for void filling feather edge.

Average Compressive Strength tested to BS 1881:Part 116:1983 at 20°C.				
Age	1 day	3 days	7 days	28 days
Strength	19	49	62	73

**Flowability:** Tested to BS 4551: 1980: Part12  
 Flow 335-360mm at fluid consistency.

**Setting Times:** Tested to BS 4550: 1978: Part 3:  
 Section 3.6 at 20°C.  
 Initial Set 7.5 hours  
 Final Set 8 hours.

**Ultimate** 7.4 N/mm<sup>2</sup>

**Anchorage Bond Strength:**

**Fresh Wet Density:** 1955 kg/m<sup>3</sup> at Fluid consistency

**Yield:** 15kg of grout powder yields 10.2 litres of fluid grout. 1470kg of grout powder yields 1m<sup>3</sup> of Fluid grout.

**Packaging:** Supplied in 15kg bags with a polythene inner liner.

**Shelf Life:** 12 months when stored in dry conditions in original unopened containers.

**Safety:** L5 contains cement and thus is alkaline in contact with water. Prolonged exposure to the skin should be avoided.

(See over page for specification clause)

## **SPECIFICATION CLAUSE**

"Grouting shall be carried out using Armorex L5 Penetrating in accordance with the manufacturers current technical data sheet and Instructions For Use. The grout shall be non-shrink, high fluidity material, able to sustain structural load at section thickness of minimum 5mm and with a compressive strength of 60 N/mm<sup>2</sup> after 7 days. Material requiring site batching shall not be approved. The supplier shall be a Registered Firm to BS EN ISO 9001."