

L4 THIXOTROPIC Non-Shrink Grout

L4 is a specially formulated pre-mixed cementitious grout powder, which when mixed with water produces a high strength, thixotropic grout.

USES

For grouting starter bars, dowels, and bolts into horizontally drilled holes or pockets in concrete or brickwork eg. replacement wall ties. It is also beneficial when grouting bars into holes vertically downwards into fissured substrates. Being cementitious, L4 does retain its mechanical properties in high temperature applications, fires and when exposed to radioactivity.

SPECIAL PROPERTIES

- High strength
- Non-shrink
- Durable
- Non metallic
- High bond strength
- Quality assured factory blend
- Chloride free
- Thixotropic

METHOD OF USE

Reference should be made to the current Instructions For Use and Typical Specification No. 134. Apply the grout to sound, clean and dust free surfaces.

Holes should be drilled using rotary percussive drills with air flush or otherwise treated to ensure an irregular/rough sided hole. Pockets should be formed so as to ensure a positive mechanical connection between grout and pocket (eg. dovetailing/grit blasting). Presoaking is required, and excess presoak water should be removed immediately before grouting.

Measure maximum 4.5 litres mixing water (minimum 3 litres, according to consistency required) into the mixer. Slowly add the complete pack of L4 powder. Mix continuously for 3 minutes to a smooth consistency. Mixing is best achieved using an Armorex Mixing Paddle clamped into a slow speed drill. Do not exceed the maximum water content given above. L4 should be placed directly to the bottom of the anchor holes using a barrel gun and tube to avoid trapping air

Anchor bolts requiring pull out resistance should be shaped (eg. deformed rebar) so as to transmit the load mechanically to the anchor grout. Insert the bolt after placing the grout. Clean the barrel gun and tools using water. 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

Gap Width: Minimum 5 mm (radius).
Maximum 20 mm (radius).
Where the gap width is greater than 20 mm refer to the technical data sheets for L2 High Flow or Armorcrete.

Average Compressive Strength tested at 4.5 litres water addition rate to BS 1881:Part 116:1983.				
Age	1 day	3 days	7 days	28 days
Strength	19	49	62	73

Ultimate

Anchorage Bond Strength: 6.6 N/mm².

Setting Times:

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

Yield:

15 kg of L4 grout powder yields 9.75 litres of mixed grout.
103 x 15 kg packs yields 1 m³.

Packaging:

L4 grout is supplied in 15 kg bags.

Shelf Life:

12 months when stored in dry conditions in original unopened containers.

Safety:

L4 contains cement and thus is alkaline in contact with water. Prolonged exposure to the skin should be avoided.

SPECIFICATION CLAUSE

"Anchor grouting shall be carried out using Armorex L4 Thixotropic in accordance with the manufacturers current technical data sheet and Instructions For Use. The grout shall be non-shrink, thixotropic cementitious material with a compressive strength of 62 N/mm² after 7 days. Material requiring site batching shall not be approved.

The supplier shall be a Registered Firm to BS EN ISO 9001."