

ARMORCRETE

Non-Shrink Large Section Grout

Armorcrete is a high strength superfluid concrete. It is a blend of selected cements, graded silica sands, aggregates and compatible admixtures which when mixed with water produces a consistent, reliable, non-shrink, high strength material of exceptional fluidity.

USES

For thick section structural grouting of machine bases, stanchion bases, crane rails, pre-cast elements, etc. For shuttered repairs to structural concrete members and void filling up to 200mm thick.

SPECIAL PROPERTIES

- Ready to use
- Easy to pump or pour
- Non-shrink
- Durable
- Excellent bond

METHOD OF USE

Reference should be made to the current Instructions For Use and Typical Specification N^o. 106. **Armorcrete** should be applied onto sound, clean and dust free surfaces. Concrete should be roughened to provide a good key. For repair work a 10mm flexible disc cut should be made around the perimeter and all defective concrete removed to a minimum depth of 40mm. Where free flow is required sufficient head of **Armorcrete** should be provided by use of a hopper box incorporated into the shutter. Concrete substrate surfaces should be soaked continuously with water for six hours before applying **Armorcrete**. Surplus water in formwork and anchor pockets should be removed.

Water Addition Rate per 25 kg bag	
Pourable Consistency	2.50 litres
Flowable Consistency	2.62 litres
Fluid consistency	2.75 litres

Only mix complete packs of **Armorcrete**. 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. A coarse filter should be used on discharge to prevent passage of lumps of unmixed material which could cause blockages.

Pour or pump the mixed grout from one side only to avoid trapping air and water. Use of chains or rodding may be advantageous but do not use vibrators. Minimum pipe size is 50mm internal diameter.

Armorcrete should be placed as a continuous operation within 20 minutes of mixing by pouring or pumping. **Armorcrete** may be pumped using a suitable concrete pump. All exposed surfaces of **Armorcrete** must be properly cured with **Armorcure** and polythene.

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 40 mm.
Maximum section thickness 200 mm.

Average Compressive Strength in N/mm ² at fluid consistency tested to BS 1881:Part 116:1983.					
Age (days)	1	3	7	28	56
Strength	25	42	50	59	63

Setting Times: Tested to BS 4550: 1978: Part 3:
Section 3.6 at 20°C.
Initial Set 4.5 hours.
Final Set 6.5 hours.

Yield: 25 kg of Armorcrete yields 12 litres.

Packaging: Armorcrete is supplied in 25 kg bags with a polythene inner liner.

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

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

SPECIFICATION CLAUSE

"Grouting/repairs shall be carried out using Armorex Armorcrete in accordance with the manufacturers current technical data sheet and Instructions For Use. The grout shall have a compressive strength of at least 50 N/mm² at 7 days. Material requiring site batching shall not be approved. The supplier shall be a Registered Firm to BS EN ISO 9001."