



FLOWGROUT 60™

ULTRA HIGH STRENGTH, FREE FLOWING, NON-SHRINK CEMENTITIOUS GROUT

BENEFITS

- Prepacked, factory controlled consistent material needing only addition of water
- Shrinkage offset by expansion to ensure original volume is retained
- Free flowing, self levelling grout
- Can withstand temperature up to 200°C
- Easy placement and filling of underbases of machinery
- Non-metallic, non-toxic and chloride free
- Holds up to industrial machinery vibration & impact
- Extended work time for easy placement
- Excellent adhesion to concrete and steel
- Non staining
- High ultimate strength and durability

PRODUCT

FLOWGROUT 60 is a single pack ready to use, ultra high strength, free flowing, non shrink grout. **FLOWGROUT 60** is a blend of specially processed cement and special fillers, free from corrosive substances and additives. It conforming to **BS:1881 Part-116, 1983, BS:4551, 1980 and ASTM C 469-83, ASTM C 940.**

USE

FLOWGROUT 60 can be used to Bolt pockets and base plate grouting of all equipment, Crane, stanchion bases and all types of machinery with dynamic load.

DESCRIPTION

FLOWGROUT 60 is based on specially processed cement containing fillers and additives. **FLOWGROUT 60** is supplied as ready to use grout requiring addition of precise quantity of water at site (3.750 to 4 Litre/25 Kg Grout). **FLOWGROUT 60** is suitable for gap widths of between 10mm - 50mm. For width less than 10mm **FLOWGROUT EP** resin grout can be used (see separate data sheet for more information) for thickness in excess of 50mm. (say 75-100), cleaned washed 10mm aggregates can be incorporated at the rate of 20% of the quantity of grout used. This reduces the heat of hydration. Low water demand ensures high early strength. Expansion: Controlled expansion occurs in the unset material to ensure that the grout, when cured will continue to occupy its original volume within the confines of the voids in which it was placed. For thicker section it is necessary to fill out grout with well graded silt free aggregate to minimize heat build up.

PROPERTIES

Yield Per 25 kg	: 12.5 lit. approx
Pourable Life	: 20 minutes
Application Temp	: 10 °C to 40 °C
Expansion (% Vol)	: 0.8 to 1.5%.
Time of Expansion	: Start : 20 minutes (after mixing with water) Finish : 120 minutes

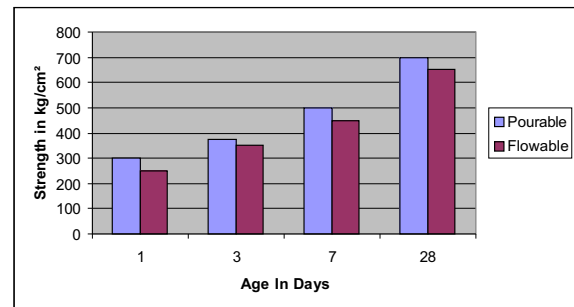
Flow	: 17 to 24 cms on flow table
Density	: 2000 kg/m ³
Tensile Strength	: 37 kg/cm ²
Pull Out Bond Strength	: 170 kg/cm ² @ 7 days 200 kg/cm ² @ 28 days

TYPICAL STRENGTH DEVELOPMENT

Compressive strength : Average strength (Kg/cm²) at flowable and pourable consistency tested as per BS 1881 : Part 116, 1983.

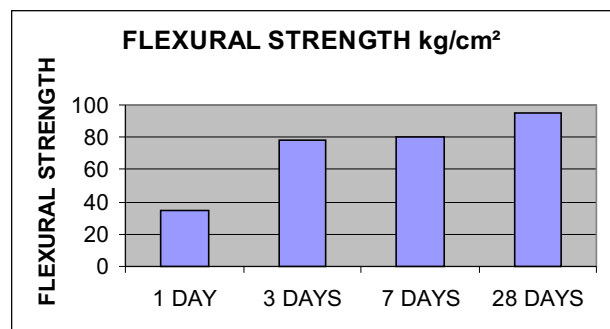
AGE IN DAYS	COMPRESSIVE STRENGTH IN Kg/cm ²	
	Pourable W/P=0.15	Flowable W/P=0.16
1	300	250
3	375	350
7	500	450
28	700	650

7.07 cm X 7.07 cm size restrained cubes were tested



Flexural Strength Results Kg/cm² W/P=0.18

1 DAY	3 DAY	7 DAY	28 DAY
35	78	80	95



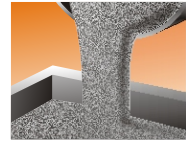
YIELD

One pack of **FLOWGROUT 60** will produce approximately 12.5 litres of grout when mixed with specified quantity of water.

APPLICATION

Surface Preparation : (1) All contaminated surfaces must be cleaned thoroughly by chemical or mechanical methods. (2) All bolt pockets and under bases must be free from dust, laitance and of sound substrate. If needed, substrate with water to allow for full absorption for atleast 24 hours. Just before the grouting is to

FLOWGROUT 60™



commence, all water must be removed completely leaving the surface only damp.

Mixing : Mechanical mixing using a grout mixer or free fall concrete mixer is recommended. No hand mixing is permitted. (1) Place 80% of the water required in a concrete mixer [100% in case of a grout mixer]. (2) Slowly add the required amount of **FLOWGROUT 60** while continuously stirring for 1 minute. Add balance quantity of water (20%) and mix for 3 to 5 minutes. This will provide a smooth even consistency of grout. The mixed grout must be placed immediately and grouting must be continued till the cavity is filled.

Bolt Pockets : Depending on the size of the bolt pockets, 50-100% cleaned 10mm sound aggregates by weight of grout consumption may be incorporated to economize on grout and also to keep the heat of hydration low. When the thickness exceeds 100mm-150mm our technical department may be contacted for advise. There must be atleast 12 hours gap between bolt pocket and under base plate grouting sequence.

Underbase Plate : Leak proof strong formwork must be provided to withstand operational stresses while grouting and all edges must be sealed with **FLOWGROUT 60** of trowelling consistency to arrest the grout from flowing out of formwork. The sealed edges must be strong enough to resist fluid grout (atleast 1-2 hours after sealing). Hydrostatic head 150-250mm must be provided to enable the free flowing of grout under base plate. Grouting must be continuous until the cavity is completely filled to the desired level. The exposed areas must be kept to a minimum. 100-150mm on the grouting side and 50mm on the opposite side. All exposed areas must be restricted by covering with wooden planks or polythene sheets with sand sprinkled on top of the sheet to avoid cracks on the grouted surface. Note : Separate application guide available on request.

Curing : 3-4 hours after grouting, all exposed areas must be cured with wet hessian cloths (keep wet always) or water ponding wherever possible for minimum 7 days. [Separate application details are available on request].

PACKING

FLOWGROUT 60 is supplied in 25 Kg. lined HDPE bag.

SHELF LIFE & STORAGE

FLOWGROUT 60 will have a shelf life of **6 months** in unopened containers when kept in dry conditions at a temperature between 5°C to 35°C. Material must be kept under shaded area and away from direct sunlight. Storage at higher temperature or high humidity may reduce shelf life.

HEALTH & SAFETY

FLOWGROUT 60 is non-hazardous but alkaline in nature. However, inhalation of dust should be avoided while handling. In its wet state, if contact with eye occurs, wash well with clean water. All equipments and tools must be rinsed with water immediately after use and then dried.

SPECIFICATION

FLOWGROUT 60 is a single pack ready to use, ultra high strength, free flowing, non shrink grout and shall be used strictly in accordance with the instruction of FAIRMATE.

QUALITY ASSURANCE

Fairmate manufactures entire range of construction chemicals under compliance of ISO 9001, ISO (EMS) 14001 & OHSAS 18001 (Occupational Health and Safety) certified by ISOQAR / UK.

TECHNICAL SERVICES

While new advances and changes will take place but one thing will never change is quality and meeting special needs of our customers. Our laboratory in Baroda and technical personnel & experts are available to provide additional information and technical assistance. We are eager to work with you in development of new product and resolve your problem.



Always Better than best in Quality, Service & Value

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