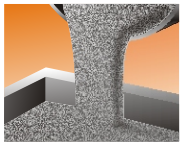


FAIR MATE®
Mfg. The complete range of
construction chemicals

FLOWGROUT™ 40

HIGH STRENGTH, FREE FLOW, NON-SHRINK GROUT

BENEFITS

- Prepacked, In factory ensures consistency in supply requires addition of water to develop a free flow, non shrinking and high strength gaining grout.
- Material shrinkage is offset by expansion during green condition and later on by maintaining original volume.
- Self leveling by nature.
- Can withstand temperature up to 200ºC
- Easy placement and filling of under bases of machinery.
- Non metallic and chloride free.

PRODUCT

A Single pack ready to use, high strength, free flowing, non shrink grout. **FLOWGROUT 40** 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

Bolt pockets and base plate grouting of all rotary and static equipments, Crane, Stanchion bases and all types of machinery in all types of industrial projects.

DESCRIPTION

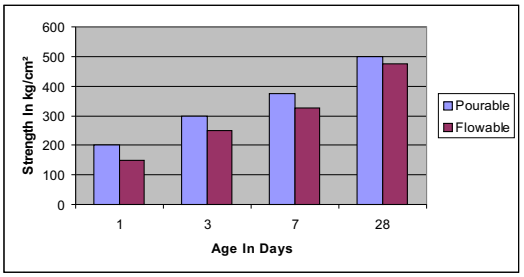
FLOWGROUT 40 is based on specially processed cements containing fillers and additives. **FLOWGROUT 40** is supplied as ready to use grout requiring addition of precise quantity of water at site (4.75 Litre/25 Kg grout). **FLOWGROUT 40** is suitable for gap widths between 10mm-50mm. For width less than 10mm **FLOWGROUT EP** resin grout can be used. For thickness in excess of 50mm. (say 75-100), cleaned washed 10mm aggregates can be incorporated at the rate of 50%-100% of the quantity of grout used. Water needs to be precisely measured for good early & final strength (is obtained due to very low water requirement). 25 Kg of **FLOWGROUT 40** will require 4.75 Litre of water (W/P=0.19) for making flowing grout. 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.

TYPICAL STRENGTH DEVELOPMENT

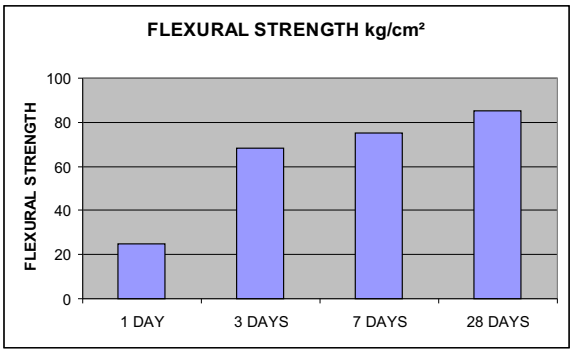
The compressive strength of **FLOWGROUT 40** is found to be as per table mention here in. It confirms to **BS 1881 : Part 116, 1983.**

AGE IN DAYS	COMPRESSIVE STRENGTH IN Kg/cm²	
	Pourable W/P=0.17	Flowable W/P=0.19
1	200	150
3	300	250
7	375	325
28	500	475

7.07cm x 7.07cm size restrained cubes were tested



Flexural Strength Results Kg/cm²			
1 DAY	3 DAY	7 DAY	28 DAY
25	68	75	85



YIELD

One pack of **FLOWGROUT 40** will yield approximately 14 Ltrs. of grout when mixed with specified quantity of water.

EXPANSION OF FLOWGROUT 40 : It possesses and ensures expansion of 0.80 to 1.50% during setting leads to superior bonding to surrounding concrete surface.

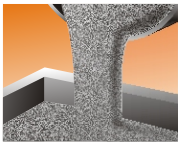
PROPERTIES

- **Yield per 25 Kg** : 14 ltrs. approx
- **Pourable life** : 20 minutes
- **Density** : 2000 Kg/m³
- **Application Temp.** : 10 ºC to 40 ºC
- **Expansion(% Vol** : 0.8 to 1.5
- **Flow on Flow Table** : 18 to 24 cms.
- **Tensile Strength** : 36 kg/cm²
- **Pull Out Bond Strength** : 165 kg/cm² @ 7 days
  195 kg/cm² @ 28 days

APPLICATION

Surface Preparation : (1) All contaminated surfaces must be cleaned thoroughly. (all contaminations fully removed by chemical or mechanical methods). (2) All bolt pockets and under bases must be free from dust, laitance. If needed, substrate must be hacked to provide extra mechanical key. (3) The pockets and under bases must be saturated with water to allow for full absorption for atleast 24 hours. Just before the grouting is to commence, all water must be removed completely leaving the surface only damp.

FLOWGROUT™ 40



Mixing : Mechanical mixing using a grout mixer or concrete mixer is recommended. No hand mixing is permitted. (1) Place 80% of the water required in a concrete mixer (100% water in case of a grout mixer). (2) Slowly add the required amount of **FLOWGROUT 40** while mixing continuously 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.

Placing : The mixed grout must be placed / poured immediately from one side only to avoid air pockets. Hydrostatic head of 150-250 mm height 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. All exposed areas must be restrained by covering with wooden plates or polythene sheets with sand sprinkled on top of the sheet.

Bolt Pockets : Depending on the size of the bolt pockets, 50-100% cleaned 10mm sound aggregates by weight of grout consumption may be sealed incorporated to economise 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 40** troweling consistency to arrest the grout flowing out of formwork. The sealed edges must be strong enough to resist fluid grout. The exposed areas of the based plate should be covered and must be kept to a minimum 100-150mm on the grouting side and 50mm on the opposite side. The expose areas of base plates (solder) should covered with polythene sheets or with wet hessian bags after 45 minutes to 1(1/2) hours (depending on temperature) with sand sprinkle on the top to restrain the expansion. If the expansion is not restrain hair line cracks will be observed on surface.

Curing : Within 8 hours of grouting all grouted areas must be cured with wet hessian cloth or water pounding according to the temperature for a minimum 7 days period.

Cleaning : All equipment, and tools must be rinsed with water immediately after use & cured material should be removed mechanically.

Technical Service : Trained Technical Service Personnel are available for site assistance on request. (application guide available on request).

PACKING

FLOWGROUT 40 is supplied in 25 Kg lined HDPE bags.

SHELF LIFE & STORAGE

FLOWGROUT 40 will have a shelf life of **6 months** in unopened containers when kept in dry conditions at a temperature between 5ºC to 35ºC.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 40 is non-hazardous, non-toxic but alkaline in nature however inhalation of the dust should be avoided while handling. In wet state if contact with eye occurs, wash well with planty of clean water.

SPECIFICATION

FLOWGROUT 40 is a cementitious grout supplied in 25kg bag, 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.

FAIR MATE®
Mfg. The complete range of construction chemicals

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