CHEMCORE™
by FAIR MATE®

CHEMGROUT 40

Formerly known as **FLOWGROUT 40**

High strength, free flow, non-shrink grout

BENEFITS

- Prepacked in the factory, ensuring consistency in supply, and requires only the addition of water to develop a free-flowing, non-shrinking, and high-strength grout
- Material shrinkage is offset by expansion during the green condition, maintaining the original volume
- Self-leveling by nature
- Can withstand temperatures up to 200ºC
- Easy placement and filling under machinery bases
- Non-metallic and chloride-free

PRODUCT

CHEMGROUT 40 is a single-pack, ready-to-use, high-strength, free-flowing, non-shrink grout. It is a blend of specially processed cement and special fillers, free from corrosive substances and additives. It conforms to BS 1881 Part-116, 1983, BS 4551:1980, and ASTM C 469-83, ASTM C 940.

DESCRIPTION

CHEMGROUT 40 is based on specially processed cements containing fillers and additives. It is supplied as a ready-to-use grout requiring the addition of a precise quantity of water at the site (4.75 liters/25 kg grout). Suitable for gap widths between 10mm-50mm. For widths less than 10mm, **CHEMGROUT EP** epoxy resin grout can be used. For thicknesses exceeding 50mm (up to 75-100mm), cleaned and washed 10mm aggregates can be incorporated at the rate of 50%-100% of the quantity of grout used. Water must be precisely measured for optimal early and final strength. 25 kg of **CHEMGROUT 40** requires 4.75 liters of water (W/P=0.19) for making flowing grout. 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 sections, it is necessary to fill out the grout with well-graded silt-free aggregates to minimize heat buildup.

USES

CHEMGROUT 40 is ideal for bolt pockets and base plate grouting of all rotary and static equipment, crane grouting, stanchion bases, and all types of machinery in industrial projects.

PROPERTIES

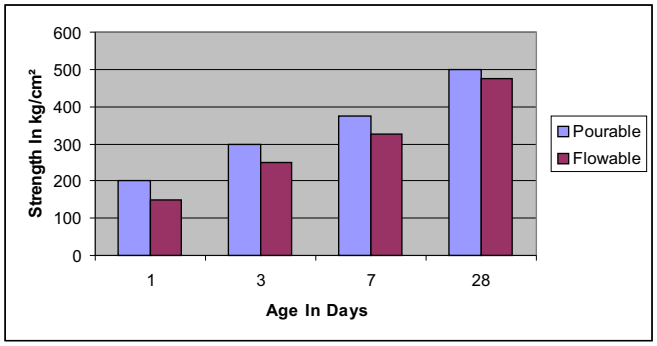
Property	Value
Yield Per 25 kg	14 liters approx.
Pourable Life	20 minutes
Density	2000 Kg/m³
Application Temperature	10ºC to 40ºC
Expansion (% Vol)	0.8 to 1.5
Flow on Flow Table	18 to 24 cm
Tensile Strength	36 kg/cm²
Pull Out Bond Strength	165 kg/cm² @ 7 days, 195 kg/cm² @ 28 days

TYPICAL STRENGTH DEVELOPMENT

The compressive strength of **CHEMGROUT 40** is as follows, confirming 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



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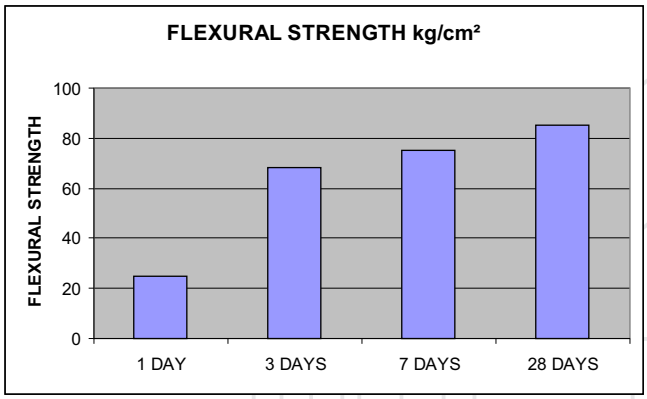
Flexural Strength Results Kg/cm²			
1 DAY	3 DAY	7 DAY	28 DAY
25	68	75	85



APPLICATION

Surface Preparation:

1. All contaminated surfaces must be cleaned thoroughly, removing all contaminants by chemical or mechanical methods.
2. All bolt pockets and under bases must be free from dust and laitance. If needed, the substrate must be hacked to provide an extra mechanical key.
3. The pockets and under bases must be saturated with water for at least 24 hours. Just before grouting, all water must be removed, leaving the surface damp.

Mixing

1. Mechanical mixing using a grout mixer or concrete mixer is recommended. No hand mixing is permitted.
2. Place 80% of the required water in a concrete mixer (100% water in the case of a grout mixer).
3. Slowly add the required amount of **CHEMGROUT 40** while mixing continuously for 1 minute. Add the remaining 20% of water and mix for 3 to 5 minutes to achieve a smooth, even consistency.

Placing:

The mixed grout must be placed/poured immediately from one side only to avoid air pockets. A hydrostatic head of 150-250 mm height must be provided to enable free flow under the 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.

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 keep the heat of hydration low. When thickness exceeds 100mm-150mm, contact the technical department for advice. There must be at least a 12-hour gap between bolt pocket and under base plate grouting sequences.

Under Base Plate : Provide leak-proof strong formwork to withstand operational stresses during grouting, and seal all edges with **CHEMGROUT 40** troweling consistency to prevent grout leakage. Exposed areas of the base plate should be covered and minimized to 100-150mm on the grouting side and 50mm on the opposite side. Cover exposed areas with polythene sheets or wet hessian bags after 45 minutes to 1.5 hours, depending on temperature, with sand sprinkled on top to restrain expansion. Unrestrained expansion may cause hairline cracks on the surface.

Curing:

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

Cleaning:

Rinse all equipment and tools 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

CHEMGROUT 40 is supplied in 25 kg lined HDPE bags.

SHELF LIFE & STORAGE

CHEMGROUT 40 has a shelf life of **6 months** in unopened containers when kept in dry conditions at temperatures between 5ºC to 35ºC. The material must be kept in a shaded area and away from direct sunlight. Storage at higher temperatures or high humidity may reduce shelf life.

HEALTH & SAFETY

CHEMGROUT 40 is non-hazardous and non-toxic but alkaline in nature. Avoid inhaling the dust while handling. In the wet state, if contact with eyes occurs, wash thoroughly with plenty of clean water.

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SPECIFICATION

CHEMGROUT 40, is a single-pack, ready-to-use, high-strength, free-flowing, non-shrink cementitious grout manufactured in compliance with ISO 9001, ISO 14001, and ISO 45001 (Occupational Health and Safety) certified by ISOQAR / UK. Having a compression strength of 500 kg/cm² with W/P=0.17 @28 days and 475 kg/cm² with W/P=0.19 @28 days. Flexural strength 85 kg/cm² @28 days, tensile strength 36 kg/cm², and pull out bond strength 195 kg/cm² @28 days. Supplied in 25 kg HDPE bags and placed or poured according to CHEMCORE guidelines.

QUALITY ASSURANCE

Fairmate manufactures entire range of construction chemicals under compliance of ISO 9001, ISO 14001 & ISO 45001 (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 quality control laboratory and technical 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.

OUR RANGE OF PRODUCTS

CONCRETE ADMIXTURES WATERPROOFING SYSTEMS ENGINEERING GROUTS INDUSTRIAL FLOOR SURFACES	CONCRETE REPAIRS SURFACE TREATMENT SEALANT PREPACKED CONCRETE & MORTAR	PROTECTIVE COATING HIGHWAY REPAIR ARCHITECTURAL FINISH

"Contact us to discuss any potential requirement and you will be assured of a rapid and effective response - that's guarantee!!"

CHEMCORE™ by FAIR MATE

Corporate Office
SAROJ HANS LLP
8/1, "SAI SUDHA", Arunoday Society,
Near Crossword, Alkapuri,
Vadodara 390 007. Gujarat, India

+91 265 2330803, 2331193, 2358173
1800 12345 34 (Toll Free)
sales@chemcore.in
www.fairmate.com

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