

CHEMGROUT 60

Formerly known as **FLOWGROUT 60**

Ultra high strength,
free flowing, non-shrink cementitious grout

BENEFITS

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

PRODUCT

CHEMGROUT 60 is a single-pack, ready-to-use, ultra high-strength, free-flowing, non-shrink grout. **CHEMGROUT 60** 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 60 is based on specially processed cement containing fillers and additives. **CHEMGROUT 60** is supplied as a ready-to-use grout requiring the addition of a precise quantity of water on-site (3.750 to 4 liters/25 kg grout). **CHEMGROUT 60** is suitable for gap widths between 10mm and 50mm. For widths less than 10mm, **CHEMGROUT EP** resin grout can be used (see separate data sheet for more information). For thicknesses in excess of 50mm (say 75-100mm), cleaned and 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. 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 aggregate to minimize heat build-up

USES

CHEMGROUT 60 can be used for bolt pockets and base plate grouting of all equipment, crane, stanchion bases, and all types of machinery with dynamic loads.

PROPERTIES

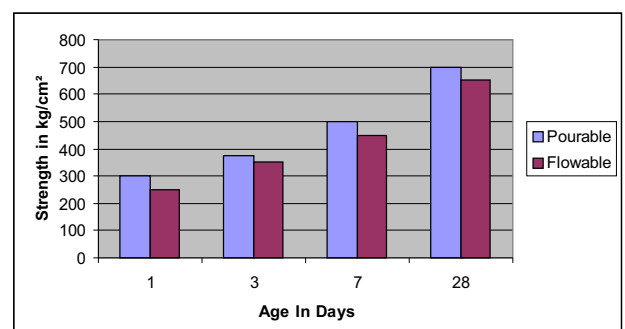
Property	Value
Yield Per 25 kg	12.5 liters approx
Pourable Life	20 minutes
Application Temperature	10 °C to 40 °C
Expansion (% Vol)	0.8 to 1.5%
Time of Expansion	Start: 20 minutes Finish: 120 minutes
Flow	17 to 24 cm on flow table
Density	2000 kg/m ³
Tensile Strength	37 kg/cm ²
Pull Out Bond Strength	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

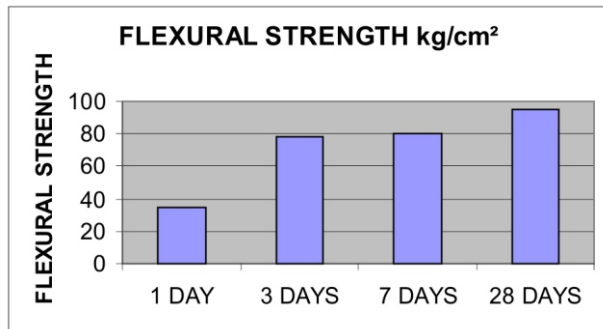
7.07 cm X 7.07 cm size restrained cubes were tested



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Flexural Strength Results Kg/cm ² W/P=0.18			
1 DAY	3 DAY	7 DAY	28 DAY
35	78	80	95



YIELD

One pack of **CHEMGROUT 60** will produce approximately 12.5 liters of grout when mixed with the specified quantity of water.

APPLICATION

Surface Preparation: All contaminated surfaces must be cleaned thoroughly by chemical or mechanical methods. All bolt pockets and under bases must be free from dust and laitance and of sound substrate. If needed, saturate the substrate with water to allow for full absorption for at least 24 hours. Just before the grouting is to commence, all water must be removed completely, leaving the surface only damp.

Mixing: Mechanical mixing using a grout mixer or concrete mixer is recommended. No hand mixing is permitted. Place 80% of the required water in a concrete mixer [100% in the case of a grout mixer]. Slowly add the required amount of **CHEMGROUT 60** while continuously stirring for 1 minute. Add the 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 until 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 advice. There must be at least 12 hours gap between bolt pocket and under base plate grouting sequence.

Under Base Plate: Leak-proof strong formwork must be provided to withstand operational stresses while grouting, and all edges must be sealed with **CHEMGROUT 60** of trowel consistency to arrest the grout from flowing out of the

formwork. The sealed edges must be strong enough to resist fluid grout (at least 1-2 hours after sealing). A hydrostatic head of 150-250mm must be provided to enable the free flow of grout under the 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: A separate application guide is 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 a minimum of 7 days. [Separate application details are available on request].

PACKING

CHEMGROUT 60 is supplied in 25 kg lined HDPE bags.

SHELF LIFE & STORAGE

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

HEALTH & SAFETY

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

SPECIFICATION

Supply and apply **CHEMGROUT 60**, a single-pack ready-to-use, ultra-high-strength, free-flowing, non-shrink cementitious grout manufactured under compliance with ISO 9001, ISO 14001, and ISO 45001 (Occupational Health and Safety) certified by ISOQAR / UK. Having compression strength of 700kg/cm² @28 days with W/P=0.15 & 650kg/cm² @28 days with W/P=0.16, flexural strength 95 kg/cm² @28 days, tensile strength 37kg/cm² & pull out bond strength 200kg/cm² @ 28 days. The material density is 2000kg/m³ & supplied in 25 kg HDPE bags. The material is placed or poured in accordance with the guidelines of CHEMCORE.

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QUALITY ASSURANCE

Fairmate manufactures the entire range of construction chemicals in compliance with ISO 9001, ISO 14001, and ISO 45001 (Occupational Health and Safety) certified by ISOQAR/UK.

TECHNICAL SERVICES

While new advances and changes will take place, one thing that will never change is our commitment to quality and meeting the 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 the development of new products and resolve your problems.



OUR RANGE OF PRODUCTS

**CONCRETE ADMIXTURES
WATERPROOFING SYSTEMS
ENGINEERING GROUTS
INDUSTRIAL FLOOR SURFACES**

**CONCRETE REPAIRS
SURFACE TREATMENT
SEALANT
PREPACKED CONCRETE & MORTAR**

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



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