

DONGROUT-GP-1

Product Details

DONGROUT-GP-1 is based on specially processed cements containing fillers and additives. **DONGROUT-GP-1** is supplied as a ready to use grout requiring addition of precise quantity of water at site (4.25 Liters/25 kg grout). Its confirming to BS:1881 Part-116.

USES: Bolt pocket and base plate grouting of all equipments, crane, stanchion bases and all types of machinery in cement, textile, paper, steel industries, Sugar industries etc.

Bolt Pocket:

Depending on the size of the bolt pockets, 50-100% cleaned 10mm sound aggregates by weight of grout consumption may be incorporated to economies 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 sequences.

DONGROUT-GP-1 is suitable for gap widths of between 10mm-50mm for widths less than 10 mm resin grout can be used. For thickness in excess of 50 mm (say 75-100) cleaned, washed 10 mm aggregates can be incorporated at the rate of 50%-100% of the quantity of grout used.

The water needs to be precisely measured and 25kg of **DONGROUT-40** will require 4.25 Liters of water ($w/p=0.7$) for making flowing grout.

Yield per 25 kg : 12.5 Liters approx, Portable life : 20 minutes, Density : 2200 kg/m³, Operational temp. : 25°C, Application temp. : 10 to 40°C, Expansion (% by vol.) : 0.8 to 1.5%

TYPICAL STRENGTH DEVELOPMENT:

The compressive strength of **DONGROUT-GP-1** tested under restrained conditions using 7.07 cm cubes.

Age in Days	Compressive Strength in N/mm ²	
	Potables W/P=0.16	Flowable W/P= 0.17
1	20.0	15.0
3	35.0	29.0
7	46.0	39.0
28	55.0	47.0

ADVANTAGES:

Pre-packed, 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., Easy placement and filling of under bases of machinery., Chloride free., High early and ultimate strength.

BASEPLATES: Leak proof strong formwork must be provided to withstand operational stresses while grouting and all edges must be sealed with **DONGROUT-GP-1** toweling consistency to arrest the grout flowing out of from work. The sealed edges must be strong enough to resist fluid grout.

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The exposed areas must be kept to a minimum 100-150mm on the grouting side and 50mm on the opposite side

SURFACE PREPARATION:

1. All contaminated surfaces must be cleaned thoroughly and all contaminations fully removed 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 must be hacked to provide extra mechanical key.
3. The pockets and under bases must be inundated 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 only 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 **DONGROUT-GP-1** while mixing continuously for 1 minute. Add balance quantity of water (20%) and mix for 3 to 5 minutes maximum.

PLACING: The mixed grout must be placed immediately from one side only to avoid air pockets. Hydrostatic head of 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.

All exposed areas must be restrained by covering with wooden plates or polythene sheets with sand sprinkled on top of the sheet.

CURING:

12 hours after grouting, all grouted areas must be cured with wet Hessian cloth (keep wet always) or water pending wherever possible for a minimum 7 days period.

CLEANING: All equipment and tools must be rinsed with water immediately after use and then dried.

STORAGE LIFE: **DONGROUT-GP-1** has a minimum shelf life of 6 months if stored in a dry enclosed area in unopened bags. Precautions taken for storing cements will also apply in the case of **DONGROUT-GP-1**.

TECHNICAL COLLABORATION WITH



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