



HIND GROUT GP2 (M)

PRODUCT DATA SHEET

ULTRA HIGH STRENGTH NON-SHRINK CEMENTITIOUS GROUT

DESCRIPTION

Hind Grout GP2 (M) is a Ultra High Strength, Free Flowing Non Shrink, and Chloride Free Grout, conforming to **ASTMC 1107 (Standard Specification for Non Shrink Packaged Dry, Hydraulic Cement Grout)**

USES

Hind Grout GP2 (M) is used for grouting under the Bolt Pockets of Turbo Generators Diesel Generating sets, Crane, Transporter Rails with heavy wheel loading and base plate grouting of all equipments, grouting of foundation bolts for all types of machinery in cement, textile, paper & steel industries, Pulverizing Mills, Steel Rolling Mill Beds bridge bearing pads, columns, precast construction.

ADVANTAGES

Hind Grout GP2 (M) is an economical and easy to use material, requiring only addition of water. It is very easy to mix and placement can be done with high flow characteristic, rapid strength development, adjustable consistency and Compressive strength of **70N/mm² (7 days)** is achieved. It does not segregate and bleed. It is impact and vibration resistant, non-corrosive to steel and iron, non-toxic and safe to handle.

APPLICATIONS

All grouting areas must be free from the loose concrete, oil, grease, and dust where **Hind Grout GP2 (M)** will be placed. The grouting area to be saturated with water and it is to be ensured that no stagnant water is present before application. Add **Hind Grout GP2 (M)** Powder to clean water as per the recommended dosages. Keep on mixing with a grout or concrete mixer till a smooth and even consistency is achieved. Mixed grout should be used within **30 minutes** of preparation. After initial hardening of the grout, it should be kept wet with damp hessian cloth for at least **3-7 days**. Water and Powder ratio varies from **0.12 to 0.16** depending on the consistency requirement of the site. 25 Kg of the material will yield approximately 12.5 Liter of Fluid Grout and 11.5 Liter of Plastic Grout mix respectively.

Hind Grout GP2 (M) can also be mixed with **12mm down well graded aggregate** in the ratio of **2:1 by weight (2 Parts of Hind Grout GP2 (M) and 1 part well graded aggregate)**. When there is requirements of high volume specific application **20 mm down well graded aggregate** in the ratio of **2:1 by weight (2 Parts of Hind Grout GP2 (M) and 1 part well graded aggregate)** can be mixed with **Hind Grout GP2 (M)**. When **Aggregates** is mixed with **Hind Grout GP2 (M)**, Water and Powder ratio varies from **0.10 to 0.13** depending on the consistency requirement of the site Placing conditions including temperature may have to be assessed before pouring the grout at site. Small trial batches may be tried to ascertain best working consistency.

PROPERTIES

Aspect	Grey Powder
Density	2200 to 2300 Kg/m³
Expansion Characteristics	Controlled expansion takes place in the unset grout to ensure that after curing it will occupy its original volume within the confines of the voids in which is placed (2% Max).
Unrestrained Expansion	Up to 4 %
Tensile Strength	Typically, 3.5 N/mm ² is achieved in 28 days
Compressive Strength at 27 ° C (approx) (W/P Ratio 0.16 Flowable)	70 N/mm² after 7days. 80 N/mm² after 28 days.

Typical Compressive Strength with addition of Aggregates (BS-1881, Part 116-1983) (W/P 0.11)	
Percentage of Aggregates (IS 516-1959)	33%
After 7 days	70 N/mm ²
After 28 days	80 N/mm ²
Flexural Strength (BS:4551-1998) (W/P - 0.11)	
After 7 days	8.5 N/mm ²
After 28 days	11.0 N/mm ²

SHELF LIFE

Best Before 6 months from the date of manufacture in unopened condition. To be stored in a cool and dry covered space away from direct sunlight

PACKING

25Kg. in Poly lined HDPE Bag.

HANDLING PRECAUTION

Hind Grout GP2 (M) is non-toxic and ingestion is to be avoided. If contacts with eyes occur, wash well immediately with water and seek medical advice.

Note:

- **Hindcon Chemicals** maintains a team of technically trained professionals to provide full support to your problems in construction, and recommend the correct product to suite your specific requirements. Our authorized applicators can attend your site for application of the products.
- The content of the Technical datasheet are for general information and guideline. The result shown here are generated from our laboratory or from our site experiences.
- Quality of our products are maintained as per ISO9001:2008 recommendations and continuous researches. The behavior can change as per the prevailing conditions at the time of applications.
- Since **HINDCON CHEMICALS LIMITED** has no control over the use to which the users may put the material, it does not claim or warrant that in the user's particular circumstances, the result that the user will obtain from the product will be the same as those described in this communication or that the user will find the information or recommendations complete, accurate or useful. The client must test and ascertain the safety and fitness for the product for use.
- The right to change the properties of the products is reserved with us. The proprietary rights of third parties must be observed. All orders are accepted subject to the terms of sale and delivery. Users must always refer to the most recent issue of the latest Data Sheet for the product concerned, copies of which will be supplied on request.

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