

HIND GROUT GP2

HIGH STRENGTH NON-SHRINK CEMENTITIOUS GROUT



DESCRIPTION

Hind Grout GP2 is a Ultra High Strength, Free Flowing Non Shrink, and Chloride Free Grout, conforming to **BS-1881, Part 116-1983**.

USES

Hind Grout GP2 is used for grouting under the Bolt Pockets and base plate grouting of all equipment, grouting of foundation bolts for all types of machinery in cement, textile, paper & steel industries, bridge bearing pads, columns, precast construction.

ADVANTAGES

Hind Grout GP2 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 up to **70N/mm² (28 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.

- Dual Shrinkage compensated.
- Suitable for temperatures of above 0° C to 200° C.
- Easy to use, ready to mix powder, only addition of water is required.
- Adjustable consistency.
- Very good flow characteristics.
- Rapid strength development without surface crack.
- Excellent bond to concrete
- No segregation or bleeding.
- High Final Strength.
- Initial expansion by gas generation.
- Impact & vibration resistant.
- Non-corrosive to anchor bolts, base plate/saddle/frame and sliding plate.
- Not harmful to concrete and reinforcing steel.
- Non-flammable.
- Non Toxic.
- Frost, oil and fire resistant.
- Require normal curing.
- Suitable to use under restraints and grout thickness required.
- Expansive to counter initial shrinkage.
- Maximum flow distance is compatible to the dimensions of base plate/Saddle/frame.
- Resistant to chemicals, gases, etc. being handled in the equipment.
- Chloride free.

APPLICATION

All grouting areas must be free from the loose concrete, oil, grease, and dust where **Hind Grout GP2** 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** 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 0.13** depending on the consistency requirement of the site. 25 Kg of the material will yield approximately 12.0 Liter of Fluid Grout and 11.0 Liter of Plastic Grout mix respectively.

Hind Grout GP2 can also be mixed with **12mm down well graded aggregate** in the ratio of **2:1 by weight (2 Parts of Hind Grout GP2 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 and 1 part well graded aggregate)** can be mixed with **Hind Grout GP2**. When **Aggregates** is mixed with **Hind Grout GP2**, Water and

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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
Size	Cement, Special additives and aggregates
Density	2200 to 2300 Kg/m ³
Expansion	0.1 to 0.5%
Bulk Density	1.15-1.60 Kg/L (dry Powder density) at 27°C
Compressive Strength (BS-1881, Part 116-1983) at 27°C	
	Flowable (W/P 0.18) Pourable (W/P 0.165)
After 3 days	45 N/mm ² (min) 54 N/mm ² (min)
After 7 days	55 N/mm ² (min) 66 N/mm ² (min)
After 28 days	>2N/mm ² (28 days at 30°C)
Maximum grain s Size	2.36mm
Shrinkage	No shrinkage after Initial setting

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	57N/mm ²
After 28 days	70 /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. Should be stored in a cool and dry place away from direct sunlight at temperature ranging between 2°C (Min.) and 40°C (Max).

PACKING

25 Kg/30 Kg in Poly lined HDPE Bag.

HANDLING PRECAUTION

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

IMPORTANT NOTICE :

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 behaviour 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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