B&B Specialities (INDIA) Private Limited.

"The Specialty Chemical Company"

HI-GROUT GP-II

(Cementitious non-shrink free flow high strength precision grout.)

DESCRIPTION

HI–GROUT GP-II is a long work time, ready mixed high strength, and high controlled expansion grout. It is formulated for superior dynamic load stability and requires only the addition of water to be used for the application. It is to be used for application gap widths of 10-125mm. Its unique formulation contains additives, specially graded fillers that enhance high early and ultimate compressive strength.

USES

Hi-Grout GP-II is used where precision, non-shrink, high strength, structural grout is required, such as:
Heavy Equipment machinery bases Steel and paper mills.
Anchorin dowels, bolts and other fixings.
Turbine and compressors, Crane rails Bed plates where heavy repetitive loading occurs.
Structural steel columns.
Load bearing masonry walls.
Light poles and highway signs.
Pump and equipment bases in power plants

ADVANTAGES

- Long work time, easy placement.
- Provide good early and ultimate strength.
- Provide a good water tight seal.
- Free flow-ensures high level of contacts with load bearing area.
- Can be mixed at a wide range of consistencies.
- Non-staining
- Provides complete non shrink
- performance Dynamic load stability

Yield: One bag of Hi-Grout GP-II will yield 12-14 liters at flowable consistency.

PACKING

Hi-Grout GP-II is supplied in 25 kg Bags.

TECHNICAL DATA

From : Powder
Chloride Cement : Nill
Compressive Strength : Compressive Strength (Mpa)

Age (days)	Consistency Plastic
1	24
3	45
7	55
28	65

Tensile strength : 3.5 N/mm^2@28 days
Bond Strength : 20 N/mm^2@28 days
Time of Expansion Starts : 20 minutes
Finish : 120 minutes.
Fresh wet density : Approx. 2220 kg/m^3 depending on actual consistency used

APPLICATION INSTRUCTIONS

Clean surface off oil, grease, dirt, laitance and loose material, down to sound concrete. The metals which will come in contact with grout must be de- rusted, or clear of paints, oils and grease.

Bolt holes and fixing pockets must be blown clean of any dirt or debris. After roughening the concrete surface, saturate the surface and bolt holes with water for 24 hours prior to grouting.

The form work should be constructed of rigid, water tight form around the bearing plate or object to be grouted. Form elevation should be approx; one vertical inch higher than the highest point to be grouted. On large pours a form sloped at a 45 - degree angle should be employed to facilitate placement.

Do not place grout in large, unsupported open areas.

Mixing

For best results - use a mechanically powered grout mixer. Add only as much water as necessary to provide required consistency. Too much water may adversely affect expansion characteristics and strength development. Mix until grout appears homogeneous, about 3-5 minutes. Remove any unmixed lumps after mixing and before placing. Use the minimum amount of water required to achieve the necessary placement consistency.

STORAGE & SHELF LIFE

Store in a cool dry place. Shelf life is 12 months from the date of manufacture.

Placing

Just before grouting remove all pounding water from the surface of the concrete substrate leaving only a dump surface. Whenever possible grout bolt holes first. Place the grout within 20 minutes of mixing to gain full benefit of the expansion process. Place grout by hand or rod into place. Place grout from only one direction in order to reduce the amount of voids under the plate. Place grout rapidly and continuously without stopping, until the forms are overflowing and entrapped air can no longer be seen in the grout as it flows from under the plate nd over the forms. When Hi-Grout GP-II is mixed at a plastic consistency, use rods to compact the grout and to remove voids, if necessary.

Curing: On completion of the grouting operation, exposed areas should be thoroughly cured.

PRECAUTIONS

Hi-Grout GP-II is non-toxic material. Gloves should be worn while handling this product. When it falls on the skin, it should be washed off with clean running water. In the event of prolonged irritation, medical attention should be sought immediately.

STANDARD COMPLIANCE

HI-GROUT GP II complies with **IS 516 - 1959.**

This Product is Formulated and Labelled and Commercial use only

For Best Results and Safest Usage, User is Specialty Directed to Consult.

Product Warranty: All recommendations, statements and technical data contained herein are based on tests we believe to be reliable and correct, HI BOND warrants its products to be free of mfg. Defects and that, at the time and place of shipment, our material will meet current published physical properties when applied within HI BOND'S directions and tested in HI BOND'S standards. HI BOND'S facility is limited to replacement of material found to be defective. As HI BOND has no control over the u e to which others m ay put its products. It is recommended that the product be tested to determine if suitable for a specific application and / or our inform at ion is valid in particular circumstance. Responsibility remains with the architect or engineer, contractor and owner for the design, applications and proper installation of each product. Nothing contained herein shall be construed to be a recommend at on to use or as a license to operate under or to infringe any existing patents.