

PRODUCT DESCRIPTION: Fibgrout HF2 is specially designed for use where high tolerance, high strength and high fluidity are required. It is formulated as a natural aggregate system with a shrinkage - compensating binder and highly flowable without sacrificing strength or performance capabilities. Fibgrout HF2 is formulated to provide consistency and exacting performance in critical grouting operations. Fibgrout HF2 complies to ASTM C 1090 and ASTM C 1107.

AREAS OF APPLICATION

- Heavy duty grouting of machinery and equipment
- Ball Mills in Cement Plants
- Petro Chemical & Fertilizer Units
- Bridge Plates
- Bearing Plates & Textile Machineries
- Anchorages
- Machine and columns base plates

ADVANTAGE

- Highly fluid and extremely place-able for easy fluid use.
- High strength for maximum load bearing.
- Non-Shrink with minimum positive expansion for high tolerance performance.
- Non-bleeding and non-segregating at a fluid consistency.
- Does not contain any chloride or additives which may contribute to corrosion of base structure.
- Total shrinkage compensation, which provides a maximum bearing surface for the greatest overall support.
- Rapid strength gain to minimise turn around time for equipment regrouts.
- Excellent working time at high ambient temperatures.

APPLICATION METHODOLOGY

SURFACE PREPARATION

Substrate surface must be firm, offer good traction, free from loose particles, dust ,dirt and additionally free of oil, grease and other impurities which can adversely affect uniform adhesion.

MIXING

Powder : Water

Fibgrout HF2: 13.5% to 14% by weight of powder.

Add water first into the bucket & scaling while stirring add powder till the mix is smooth & consistent.

APPLYING AND LAYING

Pour into anchor bolt holes and block outs through funnel or directly if space permits. When grouting plates, pour grout into the head box and allow to flow under the plate. Straps preplaced under the plate will aid in working the grout across. Grout should be placed at a minimum of 25 mm thick and a maximum of 150 mm per lift when placed in a large mass.

Do not add sand or cement to the grout since this action will change its precision grouting characteristics. 9.1 Kg of pea gravel may be added to each bag of grout where Fibgrout HF2 will be placed at deep thickness(greater then 150 mm). Note that the water demand to achieve a certain flow level of the grout may change in this case. Do not add excess water, otherwise result in bleeding of the grout

CURING

Proper curing procedures are important to ensure the durability and quality of the repair or overlayment. To prevent surface cracking, a moist cure should be maintained for 24 hours, upto 3 days.

CLEAN UP

Clean tools and equipment with water before the material hardens.

TECHNICAL SPECIFICATIONS

All tests were carried out with water @ 135 ml - 140 ml/kg grout

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| APPEARANCE | Grey powder |
| COMPRESSIVE STRENGTH -ASTM C – 109 50 mm cubes at flowable consistency. | |
| 1 day | 27 MPa |
| 3 day | 40 MPa |
| 7 day | 52.5 MPa |
| 28 day | 68 MPa |
| FLEXURAL STRENGTH -ASTM C - 78 | |
| 7 days | 9.3 MPa |
| 28 days | 11.2 MPa |
| TENSILE STRENGTH - ASTM C - 496 | |
| 28 days | 3.7 MPa |
| VOLUME CHANGE - ASTM C - 1090 & CRD - 621 (Restrained) | |
| 1 day | +0.07% |
| 3 days | +0.07% |
| 7 days | +0.07% |
| 28 days | +0.07% |

Fibgrout HF2 -25 kg bag will yield 0.0125 m³ of fluid grout when mixed with 3.380 liter of water and density 2000kg/m³.Coverage 2kg/m²/mm.

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

SPECIFICATIONS / COMPLIANCES:-

- Shows positive expansion when tested in accordance with ASTM specification C-1090. Standard test method for measuring change in height of cylindrical specimens from Hydraulic Cement Grout.
- Meets the performance requirements of ASTM C - 1107 Grade - C combination volume adjusting grout standard specification for packaged, dry, hydraulic cement grout (non shrinkable) Bearing Plates & Textile Machineries Anchorages.

LIMITATIONS

- Do not apply Fibgrout HF 2 on surfaces known to, or likely to, suffer from rising dampness, potential osmosis problems or having relative humidity greater than 75 %. Consult fibrex before using Fibgrout HF 2 in those areas.
- Do not apply Fibgrout HF 2 to asphalt, weak or infirm concrete, unmodified sand-cement screeds, PVC tiles or sheets, or substrates known to move substantially.
- Do not apply Fibgrout HF 2 over treated expansion joints.

Please contact FIBREX for installation of floor coating over

- Oil / Fat rigged floors
- Floors with moisture content over 4 %
- Floors with rising moisture problem
- Asphalt based surface (interior)
- where pull off strength less than 1.5 N / mm²

PACKAGING

Fibgrout HF2 is packed in 25 kg bag.

STORAGE

Fibgrout HF2 has shelf life of 6 months if stored properly in original, unopened packing between +10° to + 45° in dry areas.

PRECAUTIONS

During mixing and application the following precautions should be observed: ensure adequate ventilation and avoid contact of the material with the eyes, nasal passages, mouth and unprotected skin. Avoid contact with the hands by wearing protective gloves , if necessary, a suitable barrier cream. In case of contact with the eyes, rinse immediately with plenty of water and seek medical advice and after contact with the skin wash immediately with plenty of soap and water (do not use solvents).

Prolonged contact with the skin should be avoided, especially where the user has an allergic reaction. Always wear gloves and eye/face protection as necessary. Observe personal hygiene, particularly washing the hands after work has been completed or at any interruption whilst work is in progress. Care should be taken when removing gloves to avoid contaminating the insides. In case of accidents seek medical advice.

DISPOSAL / SPILLAGE

Spillage of any of the component products should be absorbed onto sand or other inert material and transferred to a suitable disposable vessel. Disposal of such spillage or empty packaging should be in accordance with local waste disposal authority regulations.

NOTE

The information supplied in this datasheet is based upon extensive experience and is given in good faith in order to help you. Our company policy is one of continuous Research and Development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products however as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof.

HEALTH AND SAFETY

This material is intended to be used by trained professionals with proper equipment's. The following safety measures are recommended:

- Wear protective gloves, clothing, goggles, hearing protection for noise reduction and hard hats for falling debris.
- Do not eat, drink or smoke while in active contact with these materials.
- Avoid skin contact.
- Wash hands thoroughly with soap and cool water.
- Never wash the skin with a solvent.
- Anyone experiencing difficulty breathing when working with these materials or showing an allergic reaction should seek fresh air immediately and consult a physician if symptoms persist.

FIBGROUT HF2

High – Tolerance / Non – Shrink Grout

Product # 114.79
Version no: 16.11.23

Tech Data

DISCLAIMER:

Fibrex Construction Chemicals pvt. ltd. products though are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Fibrex wishes to clarify that any advice, recommendation, specification or information is accurate and correct, though it cannot, at any time assume any liability either directly or indirectly arising from the use of its products. This is because it has no direct or constant control over where or how its products are applied, and whether or not in accordance with the advice specification, recommendation or information given by it.

FIBREX OTHER PRODUCTS – WE DO

