

FIBGROUT-HF2

High -Tolerance / Non -Shrink Grout

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 is highly flowable without sacrificing strength or performance capabilities. Fibgrout – HF2 is formulated to provide consistency and exacting performance in critical grouting operations.

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

FEATURES & BENEFITS

- Highly fluid and extremely placeable 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.

TECHNICAL SPECIFICATIONS

APPEARANCE

Fibgrout HF2 is a free flowing powder designed to be mixed with water

The following results were developed under laboratory conditions. All tests were carried out with water @ 135 ml - 140 ml/kg grout.

COMPRESSIVE STRENGTH -ASTM C – 109

50 mm cubes at flowable consistency

1 day	:	270 kg/cm ²
3 days	:	400 kg/cm ²
7 days	:	525 kg/cm ²
28 days	:	680 kg/cm ²



FLEXURAL STRENGTH -ASTM C - 78

7 days : 93 kg/cm²
28 days : 112 kg/cm²

TENSILE STRENGTH - ASTM C - 496

28 days : 37 kg/cm²

VOLUME CHANGE - ASTM C - 1090 & CRD - 621 (Restrained)

1 day - + 0.07 %
3 days - + 0.07 %
7 days - + 0.07 %
28 days - + 0.07 %

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 Machinerics Anchorages

GENERAL INFORMATION

Fibgrout HF2 is designed to be fluid poured by mixing properly with the addition of water @ 135-140 ml/kg of grout until a smooth consistency is obtained, stirring continuously.

Water quantity should be selected as per consistency requirement. Do not add sand or cement to the grout since this action will change its precision grouting characteristics.

Where Fibgrout HF2 will be placed at deep thickness, up to 9.1 kg of pea gravel may be added to each bag of grout. Note that the water demand to achieve a certain flow level of the grout may change. Do not add sufficient water to promote bleeding of the grout.

PLACING

Fibgrout HF2 should be placed continuously.

CURING & SEALING

Proper curing procedures are important to ensure the durability and quality of the grout. Wet cure the grout until the forms are stripped. Then cure the grout with high solids curing compound such as Super Rezseal. If curing compound is not desired, water cure for a minimum of 3 days.

CLEAN-UP

Clean tools and equipment's with water before the material hardens.

PRECAUTIONS

- Store materials in a dry place.
- Proper curing is required.
- Do not add admixtures or fluidifiers.
- Do not use material at temperatures that may cause premature freezing.
- Keep the grout from freezing until a minimum strength of 28 Mpa is reached.
- Do not use a topping.
- Shoulder cracks may occur on wide shoulders, improperly cured shoulders, or at stress points such as shim packs, bolts or plate stiffeners. These cracks are of no structural significance.

NOTE: This information should be used in conjunction with the application instructions

PACKAGING / YIELD

Fibgrout HF2 is packed in 25 kg or 50 kg bags.

A 25 kg bag will yield 0.0125 m³ of fluid grout when mixed with 3.380 liter of water.