



FERROX GROUT

FREE FLOW, HIGH STRENGTH, NON-SHRINK, CEMENTATIOUS PRECISION GROUT

DESCRIPTION

Ferrox Grout is a blend of Portland Cement, Graded Fillers & Chemical additive supplied in a ready to use dry powder. The addition of a control amount of plain water produces a free flowing non shrink grout having strength of 75 Mpa which imparts controlled expansion in the plastic states whilst minimizing the water demand. The low water demand ensures high early strength. It can be used up to a minimum of 25 mm & maximum of 100 mm gap thickness.

WHERE USED

GROUTING THE BASE PLATES AND BOLT POCKETS OF

- Cement, Textile, Granite & Paper Plant Machinery.
- Diesel Generators & Crane
- Machine Foundation & Building Works
- Heavy Steel Structure Foundation
- Heavy Reciprocating Equipment
- Compressors, Pump Sets
- Steel Rolling Mill Beds
- Turbo Generators
- Pulverizing Mills

ADVANTAGES

- Pre-packed material overcomes onsite batching variations
- Develops high early compressive and flexural strength without the use of chlorides.
- Ready to use, only add water at site
- Adjustable consistency
- Impact and vibration resistant
- Nonflammable, non-toxic
- Shrinkage compensated
- Free flow ensures high level of contact with load bearing area.

TYPICAL TEST REPORT

| Sr. | Description | Test Result |
|-----|-------------------------------------|-------------|
| 1 | Compressive Strength(Mpa) | |
| | a) 1 Day | 26.70 |
| | b) 3 Days | 46.80 |
| | c) 7 Days | 56.40 |
| | d) 28 Days | 75.30 |
| 2 | Flexural Strength in Mpa at 7 Days | 5.60 |
| 3 | Flexural Strength in Mpa at 28 Days | 8.20 |
| 4 | Bond Strength in Mpa at 7 Days | 18.80 |
| 5 | Bond Strength in Mpa at 28 Days | 31.00 |
| 6 | Water/Grout Mix ratio | 0.16 |
| 7 | Fresh wet density in gm/cc | 2.32 |

APPLICATION INSTRUCTIONS

Preparing Foundation Surface

The substrate surface as well as base plate must be free from oil, grease, scale or any loosely adherent material. If the concrete surface is defective or has laitance, it must be cut back to a sound base. Bolt holes and fixing pockets must be blown clean of any dirt or debris. Several hours prior to placing, the concrete substrates should be saturated with fresh water. Before grouting takes place, any free water should be removed.

MIXING AND PLACING

Mixing

The quantity of clean water required to be added to a 25kg bag to achieve the desired consistency is given below:

Pourable : 3.5 to 4.00 liters

Flowable : 4.0 to 4.50 liters

For best results a mechanically powered grout mixer should be used. The selected water content should be accurately measured in to the mixer. The total content of the FERROX GROUT bag should be slowly added and continuous mixing should take place for 5 minutes. This will ensure that the grout has a smooth even consistency.

Placing

Place the prepared grout within 20 minutes after mixing. FERROX GROUT can be placed in thicknesses up to 100 mm in a single pour when used as an under plate grout. For thicker sections it is necessary to add well graded silt free aggregate of 6-10mm size in FERROX GROUT to minimize the heat built up. Mix 1 part of aggregate in 2 parts of FERROX GROUT by weight.

Any bolt pockets must be grouted prior to grouting between the substrate and the base plate. Continuous grout flow is essential. Sufficient grout must be prepared before starting.

Working in different temperature

When the air or contact surface temperatures are 10°C or below, warm water (30°C – 40°C) is recommended to accelerate strength development & the form work should be kept in place for at least 36 hours. While at ambient temperatures above 40°C, cool water (below 20°C) should be used for mixing the grout.

CURING

Moist cure all exposed areas with wet hessian for 24 hours. Then apply our Concure Curing compound on the exposed surface. Protect the area from sun and wind to prevent immediate drying out the grout.

PACKAGING

FERROX GROUT is supplied in 25 kg moisture resistant bag.

YIELD

50 Kg of FerroX Grout will yield 0.02 m³.
(i.e. approximately one C.ft.)

STORAGE / SHELF LIFE

FERROX GROUT has a shelf life of 12 months when stored in a cool, dry place.

HEALTH AND SAFETY INSTRUCTIONS

FERROX GROUT is alkaline and should not come into contact with skin and eyes. Inhalation of dust during mixing should be avoided. Gloves, goggles and dust mask should be worn. If contact with skin occurs, it should be washed with water. Splashes to eyes should be washed immediately with plenty of clean water and medical advice sought.

Mfg By



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Chemists to the Building Industry

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