

Groutex

Expanding / Plasticising Grout Admixture

DESCRIPTION

GROUTEX consists of a refined lignosulphonate plasticiser plus a finely divided coated aluminium powder. The plasticiser enables high workability mixes to be produced at low water contents and the aluminium powder dissolves in the cement paste to produce a positively expanding material. After setting there is no metallic residue or staining from the low pressure expansion system. Groutex is chloride free and can be safely used in contact with steel reinforcement, post tensioned cables and pre-stressed wires. The microcellular structure of hardened grout gives low permeability and good freeze thaw stability. Mixes containing Groutex give good flow and easy placement helping to obtain complete filling of the work piece. The non-shrink characteristics prevent plastic settlement producing permanent contact between grouted surfaces.

Free Expansion: Free expansion is in the range 1% to 4% starting 20 minutes after mixing and is complete 2 hours after mixing.

Setting Times: The inclusion of Groutex does not significantly affect setting times of Portland cement mixes.

USES

- Grouting cable ducts in post tensioned concrete
- Under-plate grouting
- Underpinning
- Non-shrink repair mixes
- Infill concrete
- Jointing precast units

PROCEDURE

Surface Preparation: Cable ducts, injection points and injection equipment should be tested for leaks using suitable water pressure. Before grout injection water should be blown out. Formwork should be erected and made grout tight. The

MIX DESIGNS

Cement	Sand	Water	Groutex	Yield
50kg	None	22 litres	1 tub	36 litres
50kg	75kg	24 litres	2 tubs	68 litres

COMPRESSIVE STRENGTH

Mix	3 Days	7 Days	28 Days
Cement/Groutex	26 MPa	31 MPa	44 MPa
Cement/Sand/Groutex 100	21 MPa	28 MPa	41 MPa



formwork must be designed with sufficient head to ensure grout flow into and across the grouting area. Saturate the grouting area with water, leave for one hour then blow out any surplus water.

Mixing: For 50kg cement mixes the use of a high torque slow speed drill with a Grout Stirrer is suitable. For larger mixes use a standard grout mixer such as the Groutmaster Range or the Keller SD Series. Pour the required quantity of clean water into the mixing vessel. Slowly add the cement or cement and sand to the water whilst continually mixing and sprinkle in the Teknodure 100. Continue mixing for three minutes to achieve a consistent mix. Pass mixed grout through a suitable sieve to remove any formed lumps.

Application: Cable duct grouting will be carried out by pumping. Ensure a continuous supply of grout to the pump using a holding tank if necessary. Agitate grout in the holding tank to assist with maintenance of grout fluidity. The continuous feed of freshly mixed grout enables early placement to obtain maximum expansion effect. Grout should be placed within 20 minutes of mixing. Place continuously from one side of the formwork until grout appears at the opposite side of the grouting area. Do not disturb once grouting has been completed until grout has hardened.

Curing: Groutex mixes may be placed at temperatures between 5°C and 45°C. For temperatures outside this range contact the Technical Service Department. Placed grout which is exposed should be cured in accordance with good concrete practice including water spray and spray applied curing membrane.

PACKAGING & YIELD

Pack size : 200gram pack.

Yield : Refer to mix design table.

STORAGE

Groutex will have a storage life of 6 months in unopened tubs when kept in dry conditions at a temperature between 5°C and 45°C. Storage at higher temperatures and high humidity may reduce shelf life.

HEALTH AND SAFETY

Groutex is alkaline when mixed with water and should not come into contact with skin or eyes. Avoid inhalation of dust during mixing and wear safety glasses, dust mask and gloves. If skin contact occurs wash thoroughly with clean water. Should eye contact occur rinse immediately with plenty of clean water and seek medical advice. Full health and safety data is given in Product Safety Data Sheet.

The information provided in this data sheet is intended for general guidance only and is given in good faith based on Premcrete's current knowledge and experience. No warranty in respect of fitness for a purpose, or any other liability whatsoever can be inferred from the information contained within this datasheet. Users should determine the suitability of the materials for their particular application and should always refer to the most recent issue of the product data sheet for the product concerned. All materials are supplied in accordance with Premcrete Sales Terms & Conditions (available upon request)