

HI-FLOW SC GROUT

Product Codes

AG11, Packaging listed overleaf

Description

Hi-Flow SC Grout is a specially formulated, Portland cement powder mix. The mix design consists of a blend of fine and ultra-fine cements plus a set of synergistic admixtures. The grout powder is packaged in 20kg durable, moisture resistant bags ready for on site mixing. The material readily mixes with water to produce a particularly fluid flowing grout which will penetrate and fill fine voids then harden without shrinking to give a high strength product.

Particular advantages of the product include quick and easy mixing with water producing a flowing mix which promotes penetration into confined spaces and into damaged concrete substrates.

The grout will not segregate or bleed, and is readily pumpable. The mix is slightly retarded to extend fluidity life and grouting time. Once hardened and cured excellent mechanical and bond strengths are achieved giving resistance to static and dynamic stresses. The grout has a chloride free mix design enabling the use of Hi-Flow SC Grout in contact with all reinforcing steels.

- Uses include:**
- Grouting of ducts, voids and fine fissures
 - Support of cable anchor plates and ground anchors
 - To provide bearing or contact between structural elements
 - Grouting behind shafts and tunnel linings
 - Underpinning, loose floor and road slabs

Standards

Hi-Flow SC Grout has been tested in accordance with the appropriate parts of British Standards:
B.S. 1881 B.S. 4550
ASTM C230 ASTM C827

Specification Outline

Grouting works shall be carried out using Hi-Flow SC Grout as manufactured by Tecroc Products Ltd. The product must be stored, handled and used strictly in accordance with the manufacturer's instructions.

Quality Assurance

Tecroc Products Ltd is a firm of Assessed Capability. The Company's quality system conforms to BS EN 9002:1994 and is assessed by SGS Yarsley International Certification Services Ltd.

Typical Grout Properties @ 20 °C

Water content 40% by weight

8litres per 20kg bag

Compressive Strength Tested To BS 1881

1Day	3 Days	7 Days	28 Days
20N/mm ²	30N/mm ²	45N/mm ²	60N/mm ²

- Consistency** Particularly fluid grout
Consistency life 60 minutes
 Dependent on temperature
Setting times Initial 5 hours
To BS 4550 Final 6½ hours

Volume stability Non shrink to ASTM C827

Density 1850kg/m³

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Instructions For Use

Preparation

All necessary preparatory work must be completed before the grout is mixed. The fluid nature of the grout at 40% maximum water to powder ratio enables it to flow long distances in well prepared elements. Sufficient head should always be provided by either static head apparatus or positive pump pressure to undertake the work required. Site trials may be carried out to confirm that suitable equipment is available. All formwork should be water tight to contain the grout until hardened. A surcharge head should be allowed for to take up 'sinkage' as the grout fills voids. Ensure that enough grout is mixed and available for the grouting operation to be completed in one continuous pour.

Mixing

For each 20kg bag of Hi-Flow SC Grout, 8 litres of water are required. For single bag mixes suitable mixing may be achieved using a high torque slow speed drill with a Grout Stirrer. For larger mixes use a standard grout mixer such as the Groutmaster, Putzmeister or Colcrete series.

Pour the required quantity of clean water into the mixing vessel. Slowly add the Hi-Flow SC Grout to the water whilst continually mixing. Keep the mixed grout in a slow agitating holding tank prior to placing.

Placing

Hi-Flow SC Grout may be poured or pumped into place. The grout should be placed within 20 minutes of mixing. Continuous placing is important, pouring from one side of the formwork until the grout appears at the opposite side of the grouting area. Do not disturb once grouting has been completed before the grout has hardened.

Hi-Flow SC Grout may be placed at temperatures between 5°C and 35°C. For placing temperatures outside this range contact the Technical Service Department.

Curing

After grouting has been completed, or when the formwork is removed, any exposed grout must be cured immediately with Polycure at the rate of 10m²/litre. During adverse weather conditions, such as high temperatures and drying winds, a second application of Polycure should be applied after the first application is dry.

Precautions

Health and Safety

Hi-Flow SC Grout 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 are given in Product Safety Data Sheet.

Fire

Hi-Flow SC Grout is non-flammable

Yield

Each 20kg bag of Hi-Flow SC Grout will yield approximately 15 litres of mixed material.

Storage And Shelf Life

Hi-Flow SC Grout will have a storage life of 12 months in unopened bags 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.

Packaging And Ordering

Hi-Flow SC Grout is supplied in:

20kg valvesack bags Product Code AG11

Polycure is supplied in:

5kg polybottles Product Code AF03

For further information and sales please contact your local Tecroc Products office as listed below.

Tecroc Products Ltd products are guaranteed against defective materials and manufacture. Products are sold subject to the Tecroc Products Ltd Terms and Conditions of Sale, copies of which are forwarded on invoice and are available on request. Tecroc Products Ltd endeavours to ensure that the above data and any further advice is correct, however, it cannot accept any direct or indirect liability for the use of its products as such usage is beyond its control

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