

TECHNICAL DATA

Revision Date 01/2008

THIXOPUMP S GROUT

Product Codes

AG20, Packaging listed overleaf

Description

Thixopump S Grout is a specially designed pre-packaged cementitious powder which contains a blend of fine cements and pozzolana combined with a synergistic blend of admixtures. When mixed with water, it produces a thixotropic grout which will flow under pumping or agitating conditions then will gel and “stay put” when the pumping pressure is released or the grout is left stationary. The pre-packed product is ready for on site use and is easily mixed pumped and placed. Once placed the rheology of the product ensures that the placed material will not readily slump or run. Thixopump S Grout is packaged in 20kg durable, moisture resistant bags.

The blend of admixtures assists in the rapid dispersion and mixing of the powder particles giving a low density grout which will have a thixotropic or fluid consistency depending on the cycle of placement. The mixed grout is extremely stable and will not segregate or bleed. Thixopump S Grout is chloride free and can be safely used in contact with reinforcing steel. The final mix gives a high volume yield.

For applications that require a rapid gain in early strength development or in cold weather, the use Thixopump A Grout is recommended.

Uses include: “Pump and stay” applications
Specified requirement for a low density, high volume void filler
Stabilisation of sands and gravels, loose earth and embankments
Control of ground water ingress
Sealing fissures in rock, masonry, brick and concrete, without the use of formwork
Filling and repairing of cracks in brick arches and soffit concrete.

Specification Outline

Grouting works shall be carried out using Thixopump S 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 ISO 9001:2000 and is assessed by SGS Ltd Systems and Services Certification.

Typical Grout Properties @ 20 °C

Compressive Strength Tested To BS 1881

Water content 60% by weight

12litres per 20kg bag

1Day	3 Days	7 Days	28 Days
4N/mm ²	10N/mm ²	15N/mm ²	23N/mm ²

Compressive Strength Tested To BS 1881

Water content 30% by weight

6litres per 20kg bag

1Day	3 Days	7 Days	28 Days
28N/mm ²	35N/mm ²	45N/mm ²	65N/mm ²

Consistency

60% water Fluid grout
30% water Thixotropic grout

Consistency life (grout slightly agitated)

60% water 60 minutes
30% water 15 minutes

Setting times

60% water Initial 7_ hours
To BS 4550 Final 9 hours

Volume stability Non shrink to ASTM C827

Density 1700kg/m³

Standards

Thixopump S Grout has been tested in accordance with the appropriate parts of the following standards:

B.S. 1881 B.S. 4550 B.S. 4551
ASTM C827



Grouts



Structural Support Mortars



Concrete Repair Products



Construction Adhesives



Resin Et Cementitious Anchors



Highway Products



Coatings



Waterproofing



Ground Engineering

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Instructions For Use

Preparation

All necessary preparatory work must be completed before the grout is mixed. Site trials may be carried out to confirm that suitable equipment is available. Ensure that enough grout is mixed and available for the grouting operation to be completed in one continuous pour.

Mixing

Thixopump S Grout is mixed using a suitable container and a variable speed high torque drill with a Grout Stirrer. Add the appropriate amount of water to the mixing container, 6 litres to 12 litres, to produce the required grout consistency. Steadily pour the Thixopump powder into the water while continuously mixing. After all of the grout powder has been added, mix for a further 2 minutes. Pass the grout through a suitable sieve to remove any formed lumps.

Sufficient quantities of grout should be mixed to enable placing to be carried out in one continuous operation.

Placing

The use of a positive displacement pump supplying pump pressures of up to 50 bar is recommended. The grout should be held in a reservoir with an agitator prior to placing and the equipment should be set up as near the injection site as possible. Check the mixing and pumping procedure for leaks, using water which will also lubricate the equipment.

Frictional resistance to grout flow should be kept to a minimum by using a wide bore pipeline of at least 32mm diameter and reducing the line length and bends as much as possible.

When the grouting operation is complete, immediately wash out the equipment with water.

Curing

For totally enclosed void filling, no particular curing is required.

Precautions

Health and Safety

Thixopump S 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

Thixopump S Grout is non-flammable

Yield

Each 20kg bag of Thixopump S Grout will yield approximately 17³/₄ litres of mixed material.

Storage And Shelf Life

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

Packaging And Ordering

Thixopump S Grout is supplied in:

20kg valvesack bags Product Code AG20

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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Grouts



Structural Support
Mortars



Concrete Repair
Products



Construction
Adhesives



Resin Et
Cementitious
Anchors



Highway
Products



Coatings



Waterproofing



Ground
Engineering