

SpECgrout GP

GENERAL PURPOSE NON-SHRINK CEMENTITIOUS GROUT

DESCRIPTION

SpECgrout GP is a ready to use, one-part cementitious grout. The addition of clean mixing water produces a flowable non-shrink grout suitable for gaps of up to 100mm.

TYPICAL USES

SpECgrout GP is used to eliminate shrinkage when filling voids under base plates and in anchoring holes. Typical applications include:

- Grouting of equipment, machinery and stanchion base plates.
- Filling of pockets for anchor bolts, fence posts and similar applications.

ADVANTAGES

- Non-shrink
- Non-metallic and non-staining
- High early and ultimate strengths
- Low permeability
- Easy to use with given quantities of water for plastic and flowable mixes

RELEVANT STANDARD

ASTM C11073

TECHNICAL DATA

Typical results @ 23°C

Compressive strength (N/mm²) BS 1881

Part 116

W/P Ratio	0.18
1 Day	25.0
7 Days	56.5
28 Days	66.0

Flexural strength

7 Days	7.5 N/mm ²
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Expansion

Final set	7 hours
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Gap Width

Minimum	10mm
Maximum	100mm*

*For applications with over 100mm gaps, contact **SpEC Technical Department** for advice on bulking with selected aggregates.

APPLICATION

Preparation

It is essential that adequate preparation is carried out prior to the application of **SpECgrout GP**. This preparation should ensure the removal of all grease, oil and loose material.

To avoid absorption and reduction in flow characteristics, it is essential that the prepared substrate is soaked with clean water for a few hours prior to grouting. Before placing the grout, any water remaining on the surface should be removed by blowing clean with oil-free compressed air.

The underside of the base plate to be grouted should be clean and any oil or grease **MUST** be removed. The underside should preferably have no geometry, which would impede the flow of grout. For large or irregular shapes, it is essential that air release holes are drilled through the base plate to avoid trapping air and reducing the contact area.

Any formwork used should be sealed to prevent loss of grout during pouring. The formwork should be tight to the base plate and parallel to the direction of flow. A gap of around 100mm is required at the pouring hopper, with a gap of around 50mm at the opposite end.

Mixing

SpECgrout GP is a one-part cementitious grout.

SpECgrout GP must be mixed using a slow speed electric drill fitted with a **SpEC Mixing Paddle**.

This method is suitable for small quantities and for larger quantities it may be necessary to consider the use of a grout pump. Please contact **SpEC**

Technical Department for more advice on the type of pumps available.

The product cannot be mixed by hand

Good planning is essential to ensure a continuous flow of grout once pouring commences.

The specified water quantity should be measured in an accurately graduated vessel and added to the mixing vessel. The bagged powder is then added slowly whilst mixing. A mixing time of not less than five minutes is required to ensure adequate dispersal of the ingredients. The recommended water used per 25kg bag is 4.0 - 4.5 litres for fluid consistency and 3.4 - 3.6 litres for plastic grout.

Application

The grout should be poured immediately after mixing and certainly not more than 20 minutes after mixing is complete to take full advantage of the high flow properties.

The mixed product should always be poured from the hopper end of the formwork. On no account should grout be poured from more than one side of the base plate. Maintenance of a fluid head is essential to avoid air entrapment.

Bolt and Anchor Pockets

Where necessary bolt and anchor pockets must be grouted prior to the main grouting operation, ensuring there is no trapped air in the pocket.

CURING

Once the grouting has been completed, all exposed areas of grout should be cured immediately using a **SpECcure** curing membrane.

PACKAGING AND YIELD

SpECgrout GP is supplied in 25kg bags. Each bag when mixed with the given quantities of water will provide approximately 12.0 - 13.0 litres of mixed material depending on water addition.

EQUIPMENT CLEANING

Tools and equipment should be cleaned immediately using water as, on hardening, the material can only be removed mechanically.

APPLICATION TEMPERATURE RANGE

Minimum	5 °C
Maximum	35 °C

At temperatures above this range the material should be stored in shade and cool water used for mixing.

STORAGE AND SHELF LIFE

SpECgrout GP has a shelf life of 12 months when stored original containers in a cool, dry environment.

HEALTH AND SAFETY

SpECgrout GP contains alkalis and protection should be provided to prevent contact with skin and eyes. Inhalation of dust must be avoided whilst mixing.

Gloves, goggles and a dust mask must be worn. If skin contact occurs wash with plenty of soap and water. Contact with eyes should be treated by immediately washing with copious amounts of clean water followed by medical attention.

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