



PRODUCT DESCRIPTION

GP 045 is a non-shrink, natural aggregate precision grout with excellent high early and ultimate strengths. It is specially formulated to provide extended working time even at high ambient temperatures when mixed and placed at any recommended consistency. **GP 045** is normally placed at a flowable consistency to completely fill voids between 10mm and 100mm. It has been reduced use of natural sand & Water which help to protect environment.

BENEFITS

- Multiple fluidity with one material.
- Non-metallic, will not stain or rust.
- Easy to use, just add water.
- Excellent for pumping: Does not segregate, even at high flow. No build-up on equipment hopper.
- Superior freeze/thaw resistance.
- Resistant to oil and water.
- Meets ASTM C-1107 (Grade C).

USES

- All types of machinery.
- Steel columns.
- Bearing plates.
- Precast concrete.
- Other anchoring conditions that require high in-service strength.
- The non-shrink characteristics of Non-Shrink Precision Grout make it stable and capable of handling high load transfers.

TECHNICAL DATA SHEET

Form	Powder
Color	Grey
Open Time	50 Min @25 ⁰ C
Pot Life	4-5 Hrs. @25 ⁰ C
Dry Density	1.23
Wet Density	1.84

Compressive Strength	50-52 N/mm ² @28 days
Flexure Strength	9.5-10 N/mm ² @28 days
Bond Strength	13.5-14 N/mm ² @28 days
Flow Condition	Plastic, Fluid, Flow able.
Coverage	1.8-1.9 kg/mm ³

METHOD OF APPLICATION

SURFACE PREPRATION

Remove all dirt, oil, grease, and other bond-inhibiting materials by mechanical means. Anchor bolts to be grouted must be de-greased with suitable solvent. Concrete must be sound and roughened to a CSP 4 or higher to promote mechanical adhesion. Prior to pouring, surface should be brought to a saturated surface-dry condition. Steel should be cleaned and prepared thoroughly by blast cleaning to a white metal finish.

MIXING

Add 6.5 to 7.5 liters of cold, clean water for 25kg **STARGROUT GP 045 powder**. Take water in the container and slowly add the powder in to the water while mixing by hand or slow speed mixing machine and mix until a uniform, lump-free, smooth, thick consistency is achieved.

APPLICATION

Within 15 minutes after mixing, place grout into forms in normal manner to avoid air entrapment. Vibrate, pump, or ram grout as necessary to achieve flow or compaction. GP 045 must be confined in either the horizontal or vertical direction leaving minimum exposed surface. **GP 045** is an excellent grout for pumping, even at high flow. For pump recommendations, contact Technical Service. Wet cure for a minimum of 3 days or apply a curing compound which complies with ASTM C-309 on exposed surfaces.

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HEALTH & SAFETY

As with all chemicals, caution should always be exercised. Protective clothing such as gloves and goggles should be worn.

INHALATION: Inhalation of vapor or mist should be avoided. If inhaled symptoms include coughing, wheezing, laryngitis, and shortness of breath, headache, nausea, and vomiting. Immediately shift victim to fresh air, and, if needed immediately start artificial respiration. Give oxygen if breathing is labored. Get emergency medical help.

EYE CONTACT: Flush eyes with water for 15 minutes and call for medical help.

INGESTION: causes nausea, vomiting, and loss of consciousness. If accidentally swallowed do not induce vomiting rather call for medical help immediately.

SKIN CONTACT: Flush with water or soap and water till all traces have been removed. Seek medical attention if required.

STORAGE & SHELF LIFE

Shelf life is 12 months in unopened container. Store away from sunlight and preferably below 30°C. Storage should be frost protected.

PACKING

STARFROUT GP 045 is available in 25 kg.

WARRANTY

The information given is based on our knowledge and performance of the material. Every precaution is taken in the manufacture of the product and our responsibility is limited to the quality of supplies with no guarantee of the results in the field, as manufacturer has no control over site conditions or execution of work.

DISCLAIMER

The product information & application details given by the company & its agents has been provided in good faith & meant to serve only as a general guideline during usage. Users are advised to carry out tests & take trials to ensure on the suitability of products meeting their requirement prior to full scale usage of our products. Since the correct identification of the problems, quality of other materials used and the on-site workmanship are factors beyond our control, there are no expressed or implied guarantee / warranty as to the results obtained. The company does not assume any liability or consequential damage for unsatisfactory results, arising from the use of our products.

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