

Grout GP 60

General Purpose, Non-shrink Cementitious Grout

Description

Grout GP 60 is a premixed, non-shrink, natural aggregate cementitious function grout for grouting voids and filling gaps in structural elements from 10mm to 100mm thick. It is designed for grouting applications where good flow with high early and ultimate strengths is required. It can also be used at a trowelable consistency.

Uses

- Filling of rigid joints between elements in concrete and precast concrete structures
- Execution of under pinning
- Pressure grouting of concrete structures
- Grouting of rails and bridge bearing
- Grouting of stanchion baseplates
- General concrete repairs
- General void filling
- Anchoring guard rails, sign posts, dowels, bolts and rod

Advantages

- Ready to use and only require addition of water on site
- High early and ultimate strengths
- Can be pumped, poured, troweled or 'dry-packed'
- Cost effective, economical to use
- Non-toxic
- Chloride free

Typical Properties

Specific gravity (kg/l) : 2.15 - 2.35 Pot life : 60 min.

Flow (ASTM C 939) : < 30sec.

Flow cone method

Initial setting : 5hr Final setting : 6hr

Compressive Strength (N/mm²)

1 day : > 25 7 days : > 40 28 days : > 60 Expansion / Shrinkage : 0% (ASTM C940)

*Tested with flowable consistency with 4.5L of water per 25kg bag using cube 50mmx 50mm x 50mm.



Mixing Water (25kg bag)

Flowable : 4.0 - 4.5 litres of water

Trowelable : 3.0 - 3.5 litres of water

Application

Substrate Preparation

Remove all deteriorated concrete down to sound substrate. Scarify or roughen the surface with chipping hammer and eliminate completely dust, oil, grease, debris and laitance to ensure good bonding. Saturate well-prepared substrate for 3-5 hours before grout placement and remove all free standing water to attained saturate, surface dry condition before placing of grout. To facilitate the elimination of unabsorbed water, use compressed air if necessary.

Forming

For pourable grout, construct forms to retain grout without leakage. Forms should be coated with a form release agent (GreLease) for easy removal.

Mixing

Pour up to 80% of the required water into a clean container and slowly add **Grout GP 60** continuously. Add remaining water to achieve the desired mix. Mix for 1 to 2 minutes with a heavy duty high speed drill, remove from the sides of the concrete mixer any powder that is not well blended, remix for another 2 to 3 minutes until a fluid homogeneous paste is obtained.

According to the quantities to be prepared, a grout mixer or a mechanical mixer can be used paying careful attention to avoid the formation of air bubbles.

Mixing by hand is not recommended.





Addition of fine aggregate

For filling cavities that have dimensions greater than 100mm it is recommended to add gravel / aggregate with a maximum diameter of 6 to12 mm not exceeding 30% by weight of **Grout GP 60**. It is advisable to carry out preliminary tests at the work site to confirm require workability and strength.

Placing

Pouring:

Pour **Grout GP 60** from one side only in a continual flow encouraging the discharge of air bubbles into the appropriate area. Use a suitable head box to ensure grout flows continuously. The use of **Grout GP 60** for connecting precast concrete elements and the filling of rigid joints is recommended for thickness up to 60 mm.

It is not necessary to vibrate the grout mechanically. To facilitate the filling of spaces that are particularly difficult, use a wood list or an iron rod.

Grout GP60 can be pumped

Pumping:

Pumping should begin at the grout inlet nearest one end of the plate. Grout should be pumped into that inlet until it flow up into an adjacent inlet and flows from the entire plate perimeter adjacent to the inlet. The pump line should be moved to successive inlet until grouting is complete.

Dry Pack:

Placement of damp but very stiff, non-plastic grout into place. Only economical for small scale work.

Curing

In hot weather it is advisable not to expose the material to sun and to use cold water in preparing the mix

After casting, the surface of the grout exposed to the air must be protected from rapid water evaporation that can cause the formation of surface cracks due to plastic shrinkage especially in hot and/or windy weather.

The use of wet burlaps, plastic sheets or curing compound is recommended.

Do not disturb formwork or grout for 24 hours

Cleaning

Fresh grout can be removed from tools with water. Hardened concrete must be removed mechanically.

Packaging

Grout GP 60 is supplied in 25 kg bags.

Shelf Life

Grout GP 60 has a shelf life of 12 months if store in a dry, sheltered place in original, unopened packaging.

Shelf life will be reduced if storage temperature and humidity are high.

Note:

Use the leaflet as a guide for the use of this product concerned. The information given is in accordance with the latest technical developments. However, we cannot accept responsibility for any work carried out with our materials as we have no control over the method of application used or the condition of the site involved.

Last updated by KH/APR 2018

website: www.greco-asia.com Page 2/2