

Corrogrout GP

General purpose pre bagged, non-shrink grout

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Product Features

Corrogrout GP is a pre mixed & bagged blend of cements, aggregates & special polymers, to give a non-shrink, free flowing, cementitious grout, providing a smooth pouring or trowellable grade consistency that completely fills the void between base plates and foundations, for gap widths of 10 – 50 mm in a single layer of grout.

Corrogrout GP is non metallic, free from chlorides and shrinkage compensated to ensure the transfer of loads through to foundations whilst developing excellent compressive strength.

Typical Uses

Corrogrout GP is typically used for grouting general purpose applications such as column bases, tie bolt holes and joints between pre-cast elements, but it can also be used as an anchoring grout around threaded or high yield bolts for balustrades, fences and barriers.

Technical Data		
Properties	Test Standards	Typical Values
Appearance		: grey powder
Particle size		: 0.1 - 2 mm
Bulk Density		: 1.4
pH		: 12.5
Flexural Strength, @ 28 days	BS EN 196-1 : 2005	: > 8 MPa
Compressive Strength, @ 28 days	BS EN 196-1 : 2005	: > 60 MPa

Note: All values given are subject to 5 - 10% tolerance.

Directions for Use

Preparation

Concrete

For effective grouting under base plates, erect a waterproof formwork with drainage points, tight to the longest sides of the plate to be grouted, ensuring the height of the formwork extends above the height of the base plate.

At one of the short ends of the plate, erect a hopper at least 50 mm away from the plate, with sufficient volume to create a minimum height of 200 mm above the level of the base plate. This will ensure the material flows in a continuous pour under the plate without potential air voids.

At the opposite short end to the hopper erect a similar formwork to the long sides but leaving a gap not exceeding 25 mm from the plate to minimise the unrestrained area of grout as it exits from under the plate.

Tie bolt hole ends and pre-cast elements should be chipped back to sound concrete ensuring no feather edges and a good mechanical key for the **Corrogrout GP**.

Priming

Concrete

Priming is not normally required however please ensure the substrate is clean, sound and free from contamination.

Thoroughly soak the concrete under the base plate with clean water for 1 – 2 hours. Drain shutters or remove all standing water, ensuring a saturated surface prior to the application of **Corrogrout GP**.

Corrotech recommends priming the prepared surface using **Corroprime AR** for tie bolt hole ends and pre-cast elements.

Mixing

It is essential that the mixing instructions are carefully followed to ensure the correct characteristics of the product are achieved. Failure to do so can result in lower performance or even possible failure of the product.

Accurately measure drinking quality water and place in a suitable empty container with sufficient volume to accommodate the mixed material with the following guidelines:

For a trowellable grout consistency use 3.6 – 4.2 litres of water
For a pourable grout consistency use 4.2 – 5.3 litres of water

Slowly add the powder to the water and mix continuously for 4 - 5 minutes using a slow speed drill and paddle or forced action mixer, until a homogenous consistency is achieved.

No additional water should be used as this will change the performance of the mixed material.

Application

Pour the mixed **Corrogrout GP** into the formwork hopper allowing it to flow under the base plate. Keep topping up as required to ensure a continuous flow in a single operation, stopping after the material exits the formwork at the opposite end of the plate and rises to the desired finished level.

After the grout has achieved initial set, dismantle the formwork and hopper, and trim the grout to finish as required.

Alternatively, apply the mixed **Corrogrout GP** to the prepared surface using a steel trowel or wood float, compacting to fill the void completely to a minimum thickness of 10 mm.

Curing

We recommend applying one of the **Corrocure** range to the exposed areas of grout, immediately after initial hardening of the product and removal of any formwork.

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Hot Weather Conditions

For application above 40°C we recommend adopting the following guidelines:

Store unmixed materials in a cool preferably air conditioned environment.

Avoid exposure of mixed & unmixed materials to direct sunlight.

Use iced water for mixing.

Keep equipment that will be in contact with the product cool and away from direct sunlight.

Avoid application during the hottest time of day.

Cleaning

Clean tools & equipment immediately after use with detergent and water.

Limitations

Substrate temperatures should be above 5°C and rising.

For application in temperatures above 40°C please refer to hot weather condition recommendations.

Avoid application if the work area may be subject to the onset of rain or moving water.

Do not part mix under any circumstances.

Additional coating protection should be applied if the product is exposed to chemicals.

All products should be used within the pot life. Materials not used within the specified time should be discarded.

If the above general application details do not meet with your requirements, please contact Corrotech for a project specific method statement.

Estimating

Corrogrout GP pack size: 25 kg bag. Total yield per bag 12 - 13 litre.

Corrocure AR pack size: 20 & 200 litre. Coverage rate approximately 4 - 5 m² per litre

All coverage rates given are theoretical and subject to actual site conditions. We recommend trial areas are done to establish practical consumption particularly for primers.

Health & safety

Always use appropriate PPE including gloves, goggles and a barrier cream to avoid contact with skin and eyes.

Should contact with skin or eyes occur, wash immediately with plenty of clean water and seek medical advice.

If swallowed, seek medical attention immediately. Do not induce vomiting.

Avoid inhalation and ensure adequate ventilation or suitable respiratory equipment if working in confined spaces.

Do not expose products to fire or naked flames under any circumstances.

Always refer to the product Material Safety Data Sheet (MSDS) for full health & safety and handling recommendations.

Storage

Corrogrout GP has a maximum shelf life of 12 months from the date of manufacture.

To maximize shelf life always store products in their original, unopened packaging in a dry environment, away from direct sunlight with a minimum temperature of 10°C but not exceeding 35°C.

Damaged packaging, high humidity or extreme temperatures may reduce the shelf life.