

Flo-Grout 80

General purpose non-shrink cementitious grout



DESCRIPTION

Flo-Grout 80 is a pre-mixed, pre-packed cementitious grout, composed of a blend of dry powders and selected aggregates which when mixed with water produce a shrinkage compensated, free flowing, high strength pumpable concrete.

APPLICATIONS

Flo-Grout 80 is ideally designed for use in the following applications:

- » Machine beds.
- » Stanchion bases, struts, railings, and guardrail assemblies.
- » Filling of shutter tie rod openings.
- » Anchoring of tie bars, and bolts.
- » Pile top re-profiling.

ADVANTAGES

- » Good non-shrinkage characteristics.
- » Extremely dense and low permeability.
- » High early strength development allowing for rapid installation.
- » High flow can be poured or pumped into variable gap widths down to 10 mm.
- » Easy to apply, single component which require only addition of water.

METHOD OF USE

SUBSTRATE PREPARATION

- » The substrate should be sound, clean and free from contamination. Surface laitance should be removed by acid etching.
- » All surfaces should be soaked with water enough to reach saturated surfaces prior to grouting.
- » A water tight formwork should be erected to avoid any grout loss.

MIXING

- » To ensure proper mixing, a mechanically powered mixer or drill fitted with suitable paddle should be used.
- » 3 litre of clean water should be added to a clean container to reach (flowable) consistency. The 25 kg powder is then added slowly to the water while mixing continuously with low speed mixer/drill (400 - 600 rpm). Mixing time should be continued for 3 minutes until uniform consistency is obtained.

TECHNICAL PROPERTIES:

Colour:	Grey
Fresh wet density:	2.4 ± 0.05 g/cm ³
Compressive strength: ASTM C109/109M	> 40 MPa @ 1 day > 65 MPa @ 7 days > 75 MPa @ 28 days
Bleeding: ASTM C940	Nil
Setting time: ASTM C191	Initial 3 hr @ 25°C Final 6 hr @ 25°C

*Notes: Typical properties @ 3 litre/25 kg @ 25°C.
Compressive strength @ 1 day is under restraint.*

PLACING AND FINISHING

As the mixed mortar has high flowability characteristics, all shutters and formwork should be watertight. Flo-Grout 80 should be poured in single continuous operation within 15 minutes of mixing.

Under Base plate:

Enough material should be available to achieve continuous fill and to complete the work. Pouring of the mixed grout should be started from one side only to avoid air entrapment. To obtain maximum flow distance, a side shutter feed between 100 mm to 250 mm high should be erected and used to build the required head.

Formwork:

As the mixed grout possesses high fluidity characteristics, all formwork and shutters should be water tight. This can be obtained by sealing underneath the formwork and at the joints by using an appropriate mastic. The shutter should be kept for a minimum of 24 hours after placement, during this period the unrestrained areas should be kept to a minimum due to the expansive nature of Flo-Grout 80.



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CURING

Since Flo-Grout 80 is a cementitious based material, it should be treated in a manner similar to concrete. Curing can be conducted by either using concrete curing compound such as Setseal A or by using wet hessian and polyethylene.

Notes:

- » At low temperatures (below 8°C), warm water is recommended to achieve the early strength. And the formwork is recommended to be kept longer time.
- » At high temperatures (35°C and above), cold water (less than 20°C) must be used for mixing, the temperature of tools must be controlled (less than 20°C) and Flo-Grout 80 should be stored at a low temperature range (less than 20°C) before use.

CLEANING

All tools should be cleaned immediately after finishing by clean water. Hardened materials can be cleaned mechanically.

PACKAGING

Flo-Grout 80 is available in 25 kg bags.

THICKNESSES AND SIZE LIMITATIONS

Flo-Grout 80 can be applied in a single application for large repair voids at thicknesses between 10 to 200 mm.

YIELD

Approximately 10.4 litre per 25 kg bag depending on consistency.

STORAGE

Flo-Grout 80 has a shelf life of 12 months from date of manufacture if stored at temperatures between 2°C and 50°C.

If these conditions are exceeded, contact DCP Technical Department for advice.

CAUTIONS

HEALTH AND SAFETY

Since it is powder containing Portland cement and sand, Flo-Grout 80 may cause irritation to skin or eyes. In case of accidental contact with eyes, immediately flush with plenty of water for at least 10 minutes and seek medical advice.

For further information refer to the Material Safety Data Sheet.

FIRE

Flo-Grout 80 is nonflammable.

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- » Surface treatments
- » Grouts and anchors.
- » Concrete repair.
- » Flooring systems.
- » Protective coatings.
- » Sealants.
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- » Adhesives.
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- » Building products.
- » Structural strengthening.

Note:

We endeavour to ensure that any information, advice or recommendation we may give in product literature is accurate and correct. However, because we have no control over where and how products are applied, we cannot accept any liability arising from the use of the products.