

Dr.Fill GP

General Purposes, Non-Shrink Cementitious Grout

Description

Dr.Fill GP is a general purposes, non-shrink grout with good flow and strength properties for placement where moderate to high mechanical strength will suffice. The grout is easy to mix using a grout mixer or drill and paddle followed by pouring or pumping. The shrinkage compensated mix design provides good freeze-thaw stability, low water absorption plus resistance to oil, sea water and mild alkali attack. The grout is chloride-free, can be safely used in contact with steel.

Applications

- Filling the void between a base plate and a substrate
- Filling rigid joints between elements in concrete and precast concrete structures
- Bridge's bearings
- It can also be used for anchoring a wide range of fixings. These include masts, anchor bolts, fence posts and around pipe sleeves
- Filling of rigid joints (e.g. between base and column, cracks in floors, joints between walls, etc.)
- Concrete repair

Advantages

- Low permeability ensures the durability of the hardened grout.
- No metallic iron content to cause staining.
- Non-corrosive.
- Chloride-free.
- Non-Toxic.
- Modulus of elasticity and thermal expansion coefficient similar to those of high-quality concrete.

Standard Compliance

- ASTM C109/ 109M-11
- ASTM C827, C1107 & C940
- BS 1881, BS 4551 & BS 6319 Pt. 3
- UNI 8147

Application Procedure

Surface Preparation

Remove all deteriorated concrete down to sound substrate. Scarify the surface and completely eliminate dust, oil, grease,

debris and laitance. Pre-Soak the sides of the cavity or void by filling with water. Before pouring, ensure all excess water is removed. Use clean, compressed air if necessary.

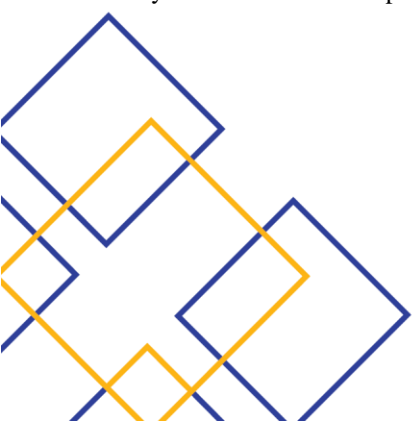
Preparation of the Mix

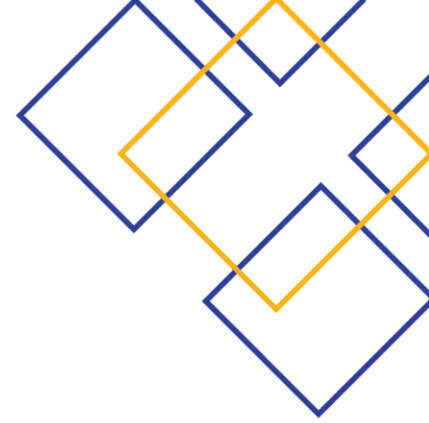
Mixing Ratio: 3.3-3.5 Ltr/25 kg

Pour in to concrete mixer or into container about 3.3-3.5 Ltr of clean water. Add slowly with mixing the 25kg bag of **Dr.Fill GP** and mix for 3 to 5 minutes until a smooth, uniform homogeneous flowable mix is achieved. For mixing use a suitable mixing paddle with a low speed mixer (200-300 rpm). Pot Life: Approx. 1 hour @ 23°C

Application

Place the grout immediately after mixing into the prepared area in such a manner that the grout has the shortest distance to flow. Pour **Dr.Fill GP** continuously maintaining a constant hydrostatic head wherever possible. **Dr.Fill GP** is suitable to use with most types of pumping equipment. Grout should be poured only from one side of the formwork to eliminate possible entrapment of air. Immediately after grout placing, curing should be done with one of **Dr.Concrete** curing compounds (contact **Dr.Concrete** Technical team for advice) or cover all exposed grout with clean wet hessian and keep moist.





Consumption

Every 25 kg of **Dr.Fill GP** yields 13-14 liter of grout

Cleaning:

Fresh grout can be removed from tools with water. After curing, cleaning can only be done mechanically.

Recommendations:

- In hot weather it is advisable not to expose the material to the sun and to use cold water when preparing the mix
- Insure to probably cure **Dr.Fill GP** after filling. It must be protected from rapid water evaporation to avoid cracks, spray water on the exposed surface for the first 24 hours or apply anti-evaporant.

Storage and Handling

Dr.Fill GP may be stored in a dry, sheltered place in original unopened packaging for up to 12 months. Protect from moisture.

Packaging

25 Kg Bag

Health and Safety

Dr.Fill GP is not hazardous according to the ruling standards on the classification of mixtures. It is recommended to take the usual precautions for handling chemical products.

Technical Data

PRODUCT IDENTITY	
Consistency:	Powder
Color:	Grey
Wet Density	2,100 Kg/m ³ approx.
Pot life of mix:	approximately 1 hour
FINAL PERFORMANCE	
Initial Setting:	1.5-2 hours
Final Setting:	3-3.5 hours
Compressive Strength (Mpa):	≥ 20 N/mm ²
- 1 day	≥ 45 N/mm ²
- 7 days	≥ 60 N/mm ²
- 28 days	
Flexural Strength (Mpa):	10 N/mm ²



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