



Unimix GR Plus

Product Description

Unimix GR Plus is a high strength, non-shrink, self-levelling, prebagged cementitious grouting with extended working time to suit local ambient temperatures.

Applicable Standard: ASTM C1107

Features and benefits

- Easy to mix and apply
- Good flow characteristics
- Very high early and ultimate strength
- Non-corrosive
- Non-toxic
- Iron and chloride free
- Dense and non-shrink
- Extended working time

Typical use

- For grouting in the following locations with 10 mm or more:
- Machine foundations
- Columns in precast construction
- Concrete anchors
- Cavities
- Gaps

Product Data

Packaging size	25 Kg plastic bags
Appearance	Free Flowing Cementitious Grey Powder
Color	Cement Grey.
Bulk Density	1.70-1.75 kg/m ³
Mixed Fresh Density	2.25-2.35 kg/m ³



Compressive Strength Flowable consistency	1 day ~ 25 N/mm ²
	7 days ~45 N/mm ²
	28 days ~65 N/mm ²
Setting Time, Flowable consistency	6 hours (Initial setting time)

Application data

The product can be applied by

Spatula: Recommended

Trowel: Recommended

Mix Ratio:

Required Consistency	Plastic	Flowable
Liters of water added per 25kg bag	3.25	3.35

Mixing Ratio may vary depending on the weather temperature, in hot climate may arise and vice versa.

Application Method:

Surface Preparation: The substrate surface must be free from oil, grease or any loosely adherent material. If the concrete surface is defective or has laitance, it must be cut back to a sound base. For maximum bond, surfaces should be roughened, preferably by mechanical means such as needle gun, grit blasting, grinding. Bolt holes or fixing pockets must be blown clean of any dirt or debris. These may need to be grouted beforehand.

Mixing:

The mixing should be mechanically. Pour 2/3rd of the gauging water into the mixing pail. Gradually adding Unimix GR Plus, continue mixing until lump free and smooth consistency is achieved, add the balance of the gauging water, mixing for a further 2 to 3 minutes. Recommended to use either low speed (max. 400/500 rpm) electric drill .

Formwork:



The formwork should be constructed to be leakproof. This can be achieved by using a sealant beneath the constructed formwork and between joints. The formwork should include outlets for draining of presoaking water.

Presoaking:

Presoaking the formed grouting area with clean water helps to ensure good adhesion of the grout at the interface of the concrete foundation and improves the flow of the grout during the installation. The area should be filled with clean water for a minimum 2 hours before the grouting takes place. Immediately before grouting takes place, any free water should be removed. Particular care should be taken to blow out any bolt holes and pockets.

Placing:

At 23°C place the grout within 20 minutes of mixing to gain full benefit of the expansion process. Construction Grout can be placed in thicknesses up to 100 mm in a single pour when used as an underplate grout. For thicker sections it is necessary to fill out GR Plus with dry, well graded silt free, 5 to 6mm aggregate to minimize heat buildup.

Curing Treatment:

On completion of the grouting operation, exposed areas should be thoroughly cured. This should be done by the use of Uniguard Bond Plus curing compound, continuous application of water and/or wet Hessian.

Limitations:

- Volume of water must always be within the limits as stated in our TDS.
- Excess water, will cause cracks, segregation and low grout strengths.
- Unimix GR Plus should be left to stand after final mixing, for 5 minutes, allowing any entrapped air to dispel.
- Unimix GR Plus should be poured /placed as soon as possible from 5 minutes.

Caution:

- Clean mixing container before use. Do not use dirty tools.
- Do not exceed dilution ratios.
- Keep out of the reach of children



Health and safety:

Refer to Unimix GR Plus MSDS.