



Unimix GR Flow

Product Description

Unimix GR Flow is general purpose non shrinkage cementitious grout, is supplied as a ready to use dry powder. The addition of a controlled amount of clean water produces a flowing non shrinkage grout for gap thicknesses 10 mm to 100mm.

Applicable Standard: ASTM 1107

Features and benefits

- Contains no metal particles, consequently it does not oxidize in high humidity.
- It will protect metals from corrosion.
- It has good ultimate strength both in flowable and plastic grade.
- It adheres to concrete, mortars, stone, steel, iron etc...
- It may be pumped, injected, vibrated or compacted.
- Stable in high humidity and temperature variations.

Typical use

- Grouting of steel column base plates.
- General anchor bolt and dowel fixation.
- Grouting for prefabricated elements, prestressed concretes.
- Grouting of general industrial equipments.
- Bridge bearing pads and beams.

Product Data

Packaging size	25 Kg plastic bags
Appearance	Free Flowing Cementitious powder
Colors	Cement Grey.
Bulk Density	1.80-1.85 kg/m ³
Mixed Fresh Density	2.33-2.35 kg/m ³

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	4.40	5

Application Method:

Surface Preparation: Unimix GR Flow can be applied on sound concrete, masonry, rock or similar materials. Remove damaged concrete and laitance by chipping with a pick or cold-chiseling to get a rough surface.

The surface must also be free from any trace of grease or oil. Saturate the surface with water by copiously spraying just before application, and if possible, 2 hours before application as well.

Product Preparation:

The grout is obtained by mixing Unimix GR Flow with 4.40 to 5 L of clean water. Add the powder to the water and mix for 3 minutes. To ensure a homogeneous and uniform mix, an electric mixer must be used.

Do not mix with other hydraulic cements. The use of additives is prohibited.

Product Application

Build a solid leak-proof formwork. Pour Unimix GR Flow continuously by proper pumping method and in one direction to avoid air pockets. The applied thickness can be up to 10 cm.

Continuous grout flow is essential and sufficient grout and water should be available to be mixed to ensure there is no discontinuity of the flow.

Application Information

- Yield 1 bag yields approximately 13 litres of mixed grout.
- Layer thickness minimum 10 mm/ maximum 100 mm
- Ambient air temperature +5°C min. / +35°C max
- Substrate temperature +5°C min. / +35°C max



Curing

Protect the work against rapid drying from wind, sun and excessive heat by using Uniguard Bond Plus curing compound or by covering with properly secured plastic sheeting.

Storage

12 months after manufacturing date in original and non-open bags, under cover, in dry condition, away from humidity, protected from extreme temperatures and direct sunlight.

Limitations:

- Unimix GR Flow is always added to the pre-measured gauging water.
- 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 Flow 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 Flow MSDS.