



Multi-Purpose Non-Shrink Cementitious Grout

Grout GP grout is a non-shrink, nonmetallic, non-corrosive that is designed to provide a controlled, positive expansion with high strength values performance, high fluidity qualities, which does not cause shrinking, disintegration and bleeding. It incorporates specially graded aggregates and advanced new generation polymers to form a cementitious grout it can also be used with pump for gap thicknesses up to 100 mm.

Areas of Use

- General purpose grouting applications.
- For anchoring works.
- Base plates, machine plates, equipment support.
- For fixing columns on the foundation in steel structures.
- For fixing cranes and machinery to concrete.
- On road and bridge connections.
- Caulking of joints and pipes.

Advantages

- Versatile - packable, pourable, Pumpable
- Positive expansion in plastic state
- Shrinkage compensated in hardened state.
- High strength
- Suitable for applications from 12-100mm
- It is easy to prepare and apply.
- Resistance to water, frost, and severe weather conditions.
- Its adherence performance and strength are very high.
- It is resistant to chloride and sulphate attacks.
- It does not cause cracks, shrinkage.
- It protects steel reinforcement against corrosion.

Standard Compliance

Grout GP meets or exceeds the test requirements of ASTM C1107, Grade A.

Application Instructions

Surface preparation

Thoroughly saturate the surface of the concrete to provide a saturated surface dry condition. Poor quality concrete may require soaking for a significant length of time. Any surface water should be removed using an oil free compressed air jet

Typical Properties

Technical information corresponds to the data, which were obtained at 20 °C (±2 °C) temperature and 50+5% relative humidity.

Color	Grey
Appearance	Granule
Application Thickness	12mm -100mm

Compressive strength: ASTM C109/109M-11	Age (days)	Flowable	Fluid
	7	≥ 67 MPa	≥ 60 MPa
	28	≥ 85 MPa	≥ 70 MPa

Flexural strength: ASTM C348	Age (days)	Flowable	Fluid
	7	≥ 9 MPa	≥ 7 MPa
	28	≥ 14 MPa	≥ 12 MPa

Expansion characteristics ASTM C940-16 Up to 2% @ 24 hours

Time for expansion	Start	15 to 20 minutes
	Finish	1.5 to 2 hours

Water Ratio	
Flowable	3.50 ltr
Fluid	4.00 ltr

Fresh wet density	Flowable	2280 kg/m3
	Fluid	2310 kg/m3

Yield	Flowable	12.50 liters per 25kg bag
	Fluid	12.55 liters per 25kg bag

Fire classification	Class A1
---------------------	----------



Mixing

Grout GP requires between 3.50- 4.00 liters of potable water per 25 kg bag, depending on the desired consistency. For optimum results, mixing should perform using a forced action high shear stirrer powered by a heavy-duty electric mixing drill.

- Add pre-measured water to a clean mixing bucket.
- Gradually add powder into the water whilst continuously mixing the contents of the bucket. When the entire contents of the bags have been added to the water, mix for a further 3 - 5 minutes to achieve maximum results. Mix product must be smooth, lump free and homogenous consistency.

It is essential that the grouting operation is continuous hence ensure sufficient labor and mixing capacity is available.

Application

The desired ambient temperature for pouring is approximately 20°C. At this temperature it is essential the grout is placed within 25 minutes of mixing as this will ensure the expansion process is maximized.

The following shall be done to ensure the entire grouted area is filled completely:

- Use a suitable head box to ensure continuous flow of grout.
- Place/ pour grout from one side, minimizing the likelihood of trapped air.
- The grout head must be always maintained so that a continuous grout front is achieved.
- Do not use mechanical vibrators to assist in flow as this will cause segregation of aggregate.
- Discard any material that shows signs of stiffening.

Cleaning

Tools should be cleaned immediately with clean water. Hardened material should be removed mechanically.

Packaging

Grout GP is available in 25 kg bags.

This product is environmentally friendly

Page 2 of 2

Storage

Grout GP has a shelf life of 12 months when stored in its original unopened packing in dry conditions. Shelf life may reduce if the recommended storage conditions changed.

Safety Instructions

Like any cementitious tile product, **Grout GP** contains hydraulic cement and may cause irritation to skin or eyes. For further information Refer to the Material Safety Data Sheet.

Disclaimer

Manaseer Industrial Complex has the right to amend its datasheets anytime. Please make sure to have the latest published datasheet version.

Manaseer Industrial Complex
Is a Member of US Green Building

