

# EPOFIX G

## High Performance Epoxy Pure and Anchoring Grout

### Description:

EPOFIX G is a pure epoxy resin grout use for general purpose horizontal and vertical anchoring in rock, concrete, brick or solid masonry. EPOFIX G hardens in a short time without shrinkage and emission of volatile substances.

### Uses:

EPOFIX G is used for

- Structural anchoring of steel rebar bolts, studs, etc. both horizontal and vertical application, with bearing loads.

### Advantages:

- Applicable for rebar anchoring both vertical and horizontal.
- Highly resistant to a wide range of chemicals
- Durable and water proof
- Can be used for immersed applications
- High adhesion strength. Stronger than concrete cohesion strength.
- Meets LEED VOC limits
- Self-mixing cartridge for easy use
- Styrene Free
- Dimensionally stable

### Gel and Loading Times:

Temp. °C	Gel Time (mins)	Loading Time (hours)
5	120	24
20	15	16
30	7	8
40	5	4

### Method of Application:

Detailed method statements are all available products in various applications. These must be referred to prior to starting work. The information below is a summary intended for guidance only.

TECHNICAL PROPERTIES:	
Temperature of Application	: +5°C to +35°C
Pot lift time of mixture (ASTM C 881)	: 7 minutes at 25°C
Water absorption (ASTM C 570)	: <0.2 %
Dry Residual	: 100%
Compression Strength (ASTM D 695)	: 70 N / mm <sup>2</sup>
Tensile Strength (ASTM D 412)	: 21 N / mm <sup>2</sup>
Slant Shear Strength	: 29 N /mm <sup>2</sup>
Linear coefficient of shrinkage (ASTM D 2566)	: 5 x10 <sup>-6</sup>

**(Test performed on concrete class 500 cured for 28 days, with light sand blasting and application of ARMOPRIME EP100 on the glued part.)**

### Equipment needed

- Concrete Drilling machine
- Hammer Drill bit of the correct diameter and working length
- Injection Gun
- Steel brush matching the diameter of the drill hole
- Blow out pump or compressed air nozzle (for deeper holes, ≥ 6 bar)

### Hole Preparation

Anchor bolt holes should be drilled using air or rotary percussion drilling equipment. If diamond core or non-percussive drills are used then the sides of the hole must be thoroughly roughened.

### Cleaning the hole

Drilling debris and dust must be thoroughly cleaned from the hole using a stiff nylon bottle brush and clean compressed air or a hole cleaning pump

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## Application:

- Once the hole is prepared. Remove the screw cap and gun plug the cartridge.
- Attached mixer nozzle, place in applicator and dispose the part of the cartridge waste until an even colour is achieved.
- Insert the mixer nozzle to the far end of the hole and half fill the hole (depending upon application). Withdrawing the nozzle as the hole fills. For deep holes, extension tubing can be used.
- Immediately insert the fixing. This should be done slowly with a slight twisting motion. Excess resin should be removed from the mouth of the hole before it sets.
- Leave the fixing undisturbed until loading time has elapsed.
- Attach the fixture and tighten the nut.
- Person Protection Equipment (PPE) including gloves

## Packaging:

EPOFIX G is supplied as 400 ml cartridges.

## Storage:

The chemical must be stored at between +5°C to +25°C away from direct sunlight. Please observe the expiration dates on the cartridge. Unused chemical left in the cartridge can be stored again and reused by removing the nozzle and wiping the openings with a cloth and closing with the cap. If the temperature during installation is too high, the cartridges should be kept cool possibly by immersing in water or storing in a cold box.

## Cleaning:

All the tools employed for the preparation and application of EPOFIX G must be cleaned with ARMOSOLVENT before hardening. For further information or particular use, contact MATEX Technical Department.

## Health and Safety:

The product must be handled with care. Use gloves, protective cream and goggles to avoid contact with eyes and skin. In case of contact with eyes rinse abundantly with water and consult a doctor. EPOFIX G can provoke irritations of the skin.

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This technical data sheet is not considered as local building codes. It shall be used as general reference for the product, based on our current knowledge and experience. However the company do not accept any liability arising from the use of its products as it has no direct control on how and where the product is applied.

