

EPOFIX G

High Performance Epoxy Pure and Anchoring Grout

Description:

EPOFIX G is a pure epoxy resin grout used 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 available for products in various applications. These must be referred to, prior to starting work. The information below is a summary intended for guidance only.

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

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.

EPOFIX G

TECHNICAL PROPERTIES	
Appearance	Black paste
Density	1.53 ± 0.03 kg/lit
Temperature of Application	+5°C to +35°C
Potlife time of mixture	7 minutes @25°C
Water Absorption (ASTM C570)	<0.2 %
Dry Residual	100%
Compressive Strength (ASTM D695)	70 N/mm ²
Tensile Strength (ASTM D638)	21 N/mm ²
Slant Shear Strength (ASTM C882)	29 N/mm ²
Linear Coefficient of Shrinkage (ASTM D2566)	5x10 ⁻⁶

*Values indicated may vary depending on the environment and conditions of the material. Figures given are tested according to standard laboratory conditions.

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

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. Hardened material can only be removed mechanically.

Health and Safety:

Avoid contact with eyes and skin. Wear suitable protective clothing such as coveralls, goggles, dust mask and gloves. Use barrier cream. Ensure that there is adequate ventilation. Do not breathe vapour or spray mist.

FIRST AID:

- Eyes: In the event of accidental splashes, flush with warm water and seek medical advice.
- Skin: Wash skin thoroughly with soap and water
- Inhalation: Remove to fresh air, keep patient rested
- Ingestion: Do not induce vomiting. Seek immediate medical attention.

For further safety information, please refer to EPOFIX G Material Safety Data Sheet.

MATEX Rev.03-1221

MATEX warrants that its products are free from material and manufacturing defects. Instructions on how to use the product should be strictly followed to ensure effectivity and safe use. MATEX shall not be liable either directly or indirectly for any damages to personal, equipment or products that may occur as a consequence of the failure of any products application because it has no direct or continuous control over where or how its products are applied. It is the user's responsibility to acquire always the updated version of datasheets.

