

# EPOCRETE GP

## General Purpose Flowable Epoxy Grout

### Description:

EPOCRETE GP is a solvent free epoxy resin grout formulated for grouting of gap widths from 10 to 50 mm. It consists of three component kit, resin base (A), hardener (B) and graded filler (C). When mixed together, the product becomes self-leveling, free flow grout.

EPOCRETE GP mainly used to provide a free flowing grout, for use where physical properties, mechanical strength, high bearing and chemical resistance of the hardened grout are of utmost importance.

### Applications:

EPOCRETE GP is suitable for a wide range of heavy duty applications including:

- Underplate grouting to structural elements and heavy machinery, equipment.
- Pile cap head treatment and waterproofing sealing.
- Equipment bases where chemical and acid spillage occurs.
- Base plate grouting in dynamic load situations such as turbines.
- Heavy industrial applications in steelworks, refineries chemical plants and electroplating works.
- Structural infill repair where very high strength is required.
- Rail track applications, to support heavy cranes.

### Advantages:

- Excellent performance. Suitable for a wide range of loading situations including repetitive dynamic loads.
- Non-shrinking with high adhesion to contact surfaces.
- High compressive, tensile and flexural strengths.
- High chemical resistance.
- High early strength gain.
- Excellent adhesion to substrate.
- High resistance to dynamic loads, thermal effects and chemical attacks.

- User friendly. Simple, full pack mixing to ensure that the performance characteristics are achieved.

### Instructions for Use:

#### Surface Preparation:

All surfaces must be dry, clean, free from oil, grease, water, paints and dust. Unsound concrete must be removed. Concrete should be sufficiently cured.

Steel surfaces should be free of rust or any contaminated product. Sand blast or grind the steel and protect with ARMOFLOOR EP100 to avoid a chance of rusting to start again.

The formwork should be constructed to be leak proof as EPOCRETE GP is a free flow grout. If needed, use foam rubber strip or mastic sealant beneath the constructed formwork and between joints.

For free flow grout conditions, it is essential to provide a hydrostatic head of grout. To achieve this a feeding hopper should be used.

Concrete surface must be totally dry when the mixed product is poured as wet surface might cause de-bonding between concrete and the grout.

#### Mixing:

It is recommended to stir the base resin and the hardener separately for two minutes to ensure that they are blended well. The entire contents of the hardener (part B) should be poured into the base container (part A) and mixed for 2 - 3 minutes or until a homogeneous mix is achieved. While mixing add slowly component C (filler) and mix for 2 – 3 minutes more until getting a unified color mixture.

Do not mix partially under any conditions and do not mix the components manually. In order to ensure proper and complete chemical reaction mix the whole kit and Use a slow speed drill fitted with a suitable paddle for mixing.

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## Application:

The mixed grout should be poured only from one side of the formwork to eliminate the entrapment of air. This can be achieved by pouring the grout across the shortest distance. While pouring, maintain a constant, preferably of at least 15 cm on the side where the grout has been poured. Allow 10 cm clearance between the side of the form and the base plate of the machine.

The mixed material must be used within the specified pot life. After this time, the unused material will start to stiffen and should be discarded.

## Standards:

EPOCRETE GP conforms to:

- ASTM C 579, ASTM C 580, ASTM 307

TECHNICAL PROPERTIES	
Density	: 2.00 Kg/cm <sup>3</sup>
Pot life time at 25°C	: 60 minutes
Compressive Strength	: 87.0 N / mm <sup>2</sup> @ 7 days
Flexure Strength	: 30.0 N / mm <sup>2</sup> @ 7 days
Tensile Strength	: 20.0 N / mm <sup>2</sup> @ 7 days
Chemical Resistance	: Excellent
Abrasion Resistance	: Higher than concrete
Impact Strength	: Higher than concrete
Water Penetration	: NIL

## Packaging:

The product supplied in 3 kits containing base, hardener, and filler in 30 Kg. set.

## Storage:

Keep the product in dry, covered conditions at 25°C.

## Shelf Life:

12 months from date of manufacturing if stored as recommended.

## Cleaning:

All tools and equipment should be cleaned immediately after use with MATEX SOLVENT.

## Remarks:

- Do not apply where ambient temperatures are below 5°C.
- Partial mixing of the product components should not be allowed under any conditions.
- EPOCRETE GP can be used for thick section applications.
- Extra care should be taken when applying at high temperature as pot life of the mixed product will shorten dramatically.
- It is recommended to shade the working area while mixing and placing EPOCRETE GP. Used tools should be kept in shade.

## Health and Safety:

- Wear protective gloves and goggles during application.
- If contact with skin or eyes happen, use resin cream to remove it from skin followed by clean water, do not use solvent.
- In case of contact with eyes, use clean water and seek medical consultation.

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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.

