

# EPOCRETE

## High Strength Flowable Epoxy Grout

### Description:

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

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

### Applications:

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

- Under plate 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, dust. Unsound concrete must be removed. Concrete should be sufficiently cured.

Steel surfaces should be free of rust or any contaminated product. Sand blasting or grinding the steel and protect with LAVAZINC EP to avoid a chance of rusting to start again.

The formwork should be constructed to be leak proof as EPOCRETE 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 debonding 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

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complete chemical reaction mix the whole kit. Use a slow speed drill fitted with a suitable paddle for mixing.

## 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 conforms to:

- ASTM C 579, ASTM C 580, ASTM 307

TECHNICAL PROPERTIES	
Color	: Grey
Compressive Strength	: 108 N / mm <sup>2</sup> @ 7 days
Flexural Strength	: 40 N / mm <sup>2</sup> @ 7 days
Tensile Strength	: 25 N / mm <sup>2</sup> @ 7 days
Bond Strength	: 1.40 N / mm <sup>2</sup>
Density	: 2.00 Kg. / cm <sup>3</sup>
Pot life at 25°C	: 60 minutes
Chemical Resistance	: Excellent
Abrasion Resistance	: Higher than concrete
Impact Strength	: Higher than concrete
Water penetration	: NIL

## Storage:

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

## Packaging:

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

## 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.

## 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.

MATEX Rev.01-0121

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.

