

## EPOFIX

### High Performance Epoxy Adhesive and Anchoring Material

#### Description:

EPOFIX is a solvent free two component high strength epoxy adhesive. Once the two components are mixed, the product becomes easily applicable on both horizontal and vertical surfaces. It adheres perfectly to a variety of supports with excellent mechanical resistance. EPOFIX hardens in a short time without shrinkage and emission of volatile substances.

EPOFIX is produced in two versions:

**Thixotropic version:** EPOFIX-T allows the anchoring of steel rebar to walls without sagging, and allows fixing of various Martials to walls and overhead applications

**Flowable Version:** EPOFIX-F allows the anchoring of steel rebar or other elements to floors and horizontal surfaces.

#### Uses:

EPOFIX is used for

- Structural anchoring of steel rebar both horizontal and vertical application, with bearing loads.
- Gluing for natural or artificial stones, marble, granite.
- Gluing for most building material such as aluminum elements, artificial humps, corner guards, cat eyes, steel, directional signs, glass, timber, PVC
- Structural elements repair, if fast curing , high compressive strength is required
- Structural gluing of prefabricated concrete elements.
- Can be used for gluing of steel plates and to fill large cracks in industrial concrete floorings.

#### Advantages:

- Can be used to bond most common building material
- Applicable for rebar anchoring both vertical (EPOFIX-T) and horizontal (EPOFIX-F )

- Highly resistant to a wide range of chemicals
- Durable and water proof
- Easy to apply in both versions.
- Can be used for immersed applications
- High adhesion strength. Stronger than concrete cohesion strength.

#### Instructions for Use:

##### Mixing:

Add the contents of Part B to the Part A container, mix carefully with low speed mixer (200 – 300 RPM) till homogeneous mixture is reached, free from lumps.

Avoid partial mixing as any error in adding the right proportion may cause incomplete curing of the product. In case of small application, equal quantities of each component should be mixed together thoroughly using a spatula. Mix sufficient material for the required work.

##### Surface Preparation:

All Surfaces must be sound, dry and perfectly clean. Loose particles, varnishes, traces of grease must be eliminated through sand blasting or brushing before the application of EPOFIX. The following general remarks should be noted for surface preparation in different types of material:

- Concrete: supports must be cured for at least 21 days to avoid tension due to hydrometric shrinkage. It is advisable to apply a coat of ARMOPRIME EP100 on the porous supports before using EPOFIX.
- Metals: Remove all signs of oil, grease. Abrade the surface and/or clean with acid etching.
- PVC: wipe with rag or cloth soaked with trichloroethylene.
- Timber: surface should be dry. Sand slightly and clean.
- Glass, Ceramic, Plastic: remove all signs of oil and grease using a propriete degreaser. Abrade the surface using emery paper or sand blasting.

# EPOFIX

## Application:

Application as an Adhesive:

In order to achieve maximum adhesion between both surfaces, the mixed product should be applied to both surfaces in a thin even film with smooth spatula or trowel. After spreading the mix, unite both elements and maintain them tight up to complete hardening of EPOFIX.

Position the surfaces correctly immediately before adhesive in the joints starts to cure. Avoid excess pressure to the joints in order to prevent the adhesive from extrusion. Any excess adhesive should be removed with a sharp knife.

Application as anchoring paste:

To apply for vertical application, the Thixotropic version of EPOFIX is recommended, while for horizontal application both version can be utilized

Apply a sufficient amount of the mix to the rebar and insert to the vertical opening, allow the material to ooze, refill the opening with a smooth spatula to level with the surface in needed

For horizontal application with Flowable mix, apply 1/3 of the Epofix into the hole, insert the rebar and supplement to the edge if required.

## Packaging:

EPOFIX is supplied as a kit of two components in metallic container of 1 & 4 Lt.

## Consumption:

EPOFIX achieves a coverage of approx. 1 square meter per liter at 1.0 mm thickness.

## Storage:

The product must be stored in dry covered shed at a temperature between 10°C and 30°C in original packing. If stored as above, the product will have a shelf life of 12 months.

TECHNICAL PROPERTIES:		
	Thixotropic	Flowable
Apperance :	Dense Paste	Liquid
Color :	Grey	Light Biege
Density: @20°C :	1.50 Kg/Lt.	1.18 Kg/Lt.
Mixing Ratio by weighing :	1:1	4:1
Temperature of Application :	+5°C to +35°C	
Pot lift time of mixture :	60 minutes at 30°C	
Water absorption :	<0.05 %	
Dry Residual :	100%	
Compression Strength :	77 N / mm <sup>2</sup>	
Tensile Strength :	29 N / mm <sup>2</sup>	
Slant Shear Strength :	35 N /mm <sup>2</sup>	
Modulus of Elasticity :	2000 MN/m <sup>2</sup>	

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

## Cleaning:

All the tools employed for the preparation and application of EPOFIX 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 can provoke irritations of the skin.

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