

# Low Viscosity Liquid Epoxy **EPAR 125**

## TECHNICAL DATA

### 1.0 DESCRIPTION

A high strength, low viscosity, unfilled epoxy. EPAR 125 can be used as supplied or mixed with aggregate in varying proportions to make epoxy concrete or grout.

### 2.0 PROPERTIES

2.1. Viscosity	Low
2.2. Mix Ratio	5 parts resin : 1 part hardener.
2.3. Pot Life	40 minutes at 20°C
2.4. Minimum Application Temp.	10°C
2.5. Shelf Life	1 year in original unopened containers
2.6. Cured Properties	(Unfilled at 20°C)
2.6.1. Colour	Transparent
2.6.2. Specific Gravity	1.1
2.6.3. Compressive Strength	70 MPa 1 day, 96 MPa 7 days
2.6.4. Compressive Modulus	3 GPa
2.6.5. Tensile Strength	20 MPa
2.6.6. Thermal Expansion	6 x 10 <sup>-5</sup> mm/mm/°C
2.7. Cured Properties of Filled System	
2.7.1. Pourable Grout	1 part epoxy : 1.5 parts J61W Silica sand
Compressive Strength	64 MPa
Tensile Strength	16 MPa
2.7.2. Trowellable Mortar	1 part epoxy : 3 parts J61W Silica sand
Compressive Strength	64 MPa
Tensile Strength	14 MPa

### 3.0 USES

Due to its low viscosity EPAR 125 is used to repair cracks in concrete by pressure injection or gravity feed.

When filled with silica aggregate EPAR 125 as a mortar or grout may be used to: bed machinery, bearing plates, crane rails, etc.; fix in holding down bolts and reinforcing rods; form high strength nosings for bridges and industrial floors.

### 4.0 APPLICATION INSTRUCTIONS

- 4.1. **SURFACE PREPARATION.** Thoroughly clean the jointing surfaces of all extraneous matter, especially oil and grease. Laitence should be removed from concrete surfaces mechanically or by acid etching. For best results steel surfaces should be prepared by sand blasting or grinding. All surfaces should be dry.



## **Fraser Brown & Stratmore Ltd**

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# EPAR 125

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## TECHNICAL DATA Continued

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- 4.2. **MIXING.** Accurately measure sufficient resin and hardener to be used within material's pot life. Mix thoroughly preferably using a paint stirrer fitted to a low speed electric drill. During the mixing process scrape the bottom and sides of the container at least once with a spatula or similar tool to ensure all components are incorporated. Mixing should continue for approximately 5 minutes. Take care to avoid air entrapment.
- 4.3. When EPAR 125 is to be mixed with aggregate, resin and hardener should first be mixed as above. Aggregate to be added to the epoxy must be completely dry. Blend in sufficient aggregate to obtain the desired viscosity and mix until an even texture is obtained.
- 4.4. **PRIMING.** When EPAR 125 is mixed with more than 3 parts aggregate to 1 part epoxy, surfaces to which it is to bond should first be primed with unfilled EPAR 125. For best results, brush apply a thin coating of EPAR 125, working it well into the substrate. Apply aggregate filled EPAR 125 while the prime coat remains tacky.
- 4.5. When trowelling filled EPAR 125 a smooth finish may be obtained by keeping the face of the trowel wet with water.
- 4.6. **CLEAN UP.** Hands and equipment should be washed with soap and water before curing is advanced.

## 5.0 PRECAUTIONS

- 5.1. EPAR 125 Hardener is corrosive to skin and eyes. Avoid contact with skin and eyes. Wear safety goggles, gloves and protective clothing. Use only in well ventilated areas. Refer to Material Safety Data Sheet for handling and safety instructions.
- 5.2. Read and follow instructions on product label and Material Safety Data Sheet.

## 6.0 PACKAGING

1 & 5-litre Packs.



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