

# High Strength Liquid Construction Epoxy

## EPAR 124

### TECHNICAL DATA

#### 1.0 DESCRIPTION

An unfilled, very fast curing, high strength, solventless liquid epoxy. EPAR 124 has good heat resistance, water and chemical resistance. EPAR 124 exhibits good curing in thin film at ambient substrate temperatures. EPAR 124 has good electrical properties.

#### 2.0 PROPERTIES

2.2. Viscosity	Low - medium and high also available.
2.3. Mix Ratio	4 parts resin: 1 part hardener by volume
2.4. Pot Life	12 - 15 minutes at 20°C for 150g.
2.5. Minimum Application Temp.	10°C substrate temperature.
2.6. Shelf Life	1 year in original unopened containers
2.7. Cured Properties	(at 20°C for 24 hours, then elevated temperature for 2 hours under laboratory conditions)
2.7.1. Colour	Dark amber
2.7.2. Specific Gravity	1.12
2.7.3. Compressive Strength	124 - 138 MPa
2.7.4. Compressive Modulus	2.5 GPa
2.7.5. Tensile Strength	86 MPa
2.7.6. Flexural Strength	153 MPa
2.7.7. Flexural Modulus	3075 MPa
2.7.8. Heat Distortion Temperature	100°C
2.7.9. Dielectric Strength S/T, V/M	440 - 465

#### 3.0 USES

EPAR 124 is used as a general-purpose gap filling adhesive or filler, and for gel coats.

EPAR 124 may be mixed with silica sand to make an epoxy grout or mortar for floor toppings, terrazzo, repairs, etc.

EPAR 124 is recommended where fast curing of a thin epoxy film is required

#### 4.0 APPLICATION

4.1. SURFACE PREPARATION. Thoroughly clean the jointing surfaces of all extraneous matter, especially oil and grease. Laitance 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.

# EPAR 124

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## TECHNICAL DATA Continued

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- 4.2. MIXING. Wear full protective gear including chemically resistant gloves, protective clothing and eye protection when using this product. Use only in a well-ventilated area and do not breathe vapours. 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.

As EPAR 124 is very fast curing, avoid mixing large volumes of unfilled product. Mix only the amount of EPAR 124 that may be used within its pot life.

When EPAR 124 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.

- 4.3. PRIMING. When EPAR 124 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 124. For best results, brush apply a thin coating of EPAR 124, working it well into the substrate. Apply aggregate filled EPAR 124 while the prime coat remains tacky.
- 4.4. When trowelling filled EPAR 124 a smooth finish may be obtained by keeping the face of the trowel wet with water.
- 4.5. CLEAN UP. Hands and equipment should be washed with soap and water before curing is advanced.
- 4.6. Refer to product label for details. Refer to safety data sheet for first aid and handling information. EPA NZ approved handler certification is required to use EPAR 124.

## 5.0 CHEMICAL RESISTANCE

The chemical resistance of EPAR 124 is shown by the percent absorption after 1 month immersion in:

• Acetone	3.3	• 20% Caustic	0.38
• MEK	0.6	• 10% Acetic Acid	3.53
• Distilled Water	0.61	• 30% Acetic Acid	10.0
• 30% H <sub>2</sub> SO <sub>4</sub>	1.23	• Ethyl Alcohol	0.17
• 10% Caustic	0.54	• Toluene	0.07

## 6.0 PACKAGING

1.25 litre and 5 litre packs.



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