

# Trowel Grade e131™

## General purpose 2 part epoxy adhesive paste

### Description

Trowel Grade e131 is a two part structural repair mortar and adhesive based on a blend of epoxy resins and high quality fillers, it is moisture tolerant and offers excellent adhesion to concrete, metal and a wide range of substrates.

### Typical Uses

- A structural repair and adhesive mortar for a wide range of substrates and applications including:
- Concrete components - repairs and bonding
- Steel, Iron, Marble, Granite, Ceramic
- Paving slabs, Cobblestones
- Masonry, Bricks, Mortar
- Timber
- Voids & holes
- Corners & edges
- Stairs, panels & columns
- Vertical & overhead applications
- Vertical tiling
- As a paving adhesive

### Features & Benefits:

- 100% solids epoxy – solvent free, No VOC.
- High compressive strength.
- Low viscosity – easy application.
- Moisture tolerant.
- Good chemical resistance – long term protection.
- Non Shrink
- High strength adhesive - excellent adhesion to most construction materials.
- Non sag in vertical and overhead application

### General Properties

Shelf Life	1 year
Appearance of Hardener	Dark grey/green colour paste
Appearance of Resin	Cream coloured paste
Mixing proportions by weight	1 Hardener to 2 Resin
Solids content	100%
Tensile strength	15 MPa
Compressive strength	69 MPa* (28 Days)
Flexural strength	30 MPa**
Application Temperature	+4°C to +35°C
Work Time	30-60mins @20°C
Cure Time	7 days
Density	1.5kg/L

\*Tested to NZS 3112 Part 2:1986; section 4, 6 (ASTM C39/C39M-09)

\*\*Tested to NZS 3112 Part 2:1986; section 7 (ASTM C39/C78-09)

### Surface Preparation

Concrete must have a minimum of 7 days cure. Surface must be clean, sound, dry and free from any loose coatings/particles or surface contaminants such as grease, oil, chemicals, paint, rust or curing membranes unless otherwise stated in the data sheets. We suggest captive shot blast, diamond grind or scabble to expose clean sound surface. In harsh environments any exposed reinforcing may require a pre treatment i.e UltraBond 132

Steel must be blast cleaned and thoroughly prepared to acceptable standards.

### Mixing

For best results, ensure the components are between +5°C and + 29°C prior to mixing. Premix both components separately to a homogenous consistency. Place the correct proportion of Component A and Component B into a clean container with flat wall and bottom.

It is recommended where possible to always use whole units.

If part units are required then accurately measure by weight.

Mix thoroughly for a minimum of 3 minutes using a low speed drill (450-600 rpm) and a mixing paddle. Keep the paddle below the surface material to avoid entrapment of air. After 3 minutes, carefully scrape the sides and bottom to ensure thorough mixing, then continue to mix for a further 2 minutes until a uniform light grey colour is achieved.

Thorough mixing of both components is important to obtain optimum results. Mix only the amount of material that can be used within the pot life.

### Application

When applying as a thin layer adhesive use a spatula or notched spreader or trowel. When applying as a repair mortar use a trowel or gloved hand to a smooth finish. Ensure good contact with the surface is achieved. On vertical surfaces maximum layer thickness is 15-20mm to prevent slumping. To avoid potential shrinkage caused by exotherm the maximum layer thickness per application is 40mm

### Limitations

Will change colour when exposed to direct sunlight. Do not finish using solvent. Will not accommodate movement cracks. Do not apply below +4°C or above +35°C. Avoid skin contact.

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### Coverage

1L covers 1m<sup>2</sup> at 1.0mm thickness.  
Actual coverage will depend on wastage and surface profile.

### Clean Up

Clean uncured material from equipment using xylene solvent.  
Cured material can only be removed by mechanical means.

### Colour

Grey /green

### Storage /Shelf Life

Keep in tightly sealed original containers in a cool place.  
Do not store near boilers or other sources of heat. Do not store in direct sunlight.  
Tightly sealed containers will store for approx 12 months.  
Use older material first.

### Health & Safety

Wear protective nitrile gloves.  
Wear eye/face protection.  
Do not breathe vapours.  
Wash hands thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Avoid release to the environment.  
Collect spillage. Do not discard into the water system.

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Apply continuous irrigation with water for at least 15 minutes holding eyelids apart. If eye irritation persists: Get medical attention.

**IF ON SKIN:** Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical attention. Wash contaminated clothing before reuse. IF exposed or concerned: Get medical attention.

### Packaging

Trowel Grade e131	1.2kg (750ml)	EPTGE131-1.2KG
Trowel Grade e131	5kg (3.1L)	EPTGE131-5KG
Trowel Grade e131	30kg (18L)	EPTGE131-30KG

