

PRODUCT DESCRIPTION

ERG™LE is a three component, high strength, low exotherm and free flowing epoxy resin grout. ERG™LE epoxy grout has a long working life and a low exotherm reaction (minimal heat generation during cure) that makes it suitable for applications where a relatively large mass of adhesive is employed.

ADVANTAGES

- Low exotherm for minimal heat build-up in thick cross-sections.
- Resistant to dynamic loading
- High compressive, flexural and tensile strengths.
- ERG™LE epoxy-based grout are suitable for a wide range of applications.
- Designed for deep pours up to 150 mm due to its low exotherm epoxy resin.
- Ready-to-mix, pre-batched units for straightforward installation
- Exceptional bond to concrete and steel surfaces.

PHYSICAL PROPERTIES

Appearance	Part A: colorless liquid Part B: colorless / pale yellow liquid Part C: grey powder
Mix ratio (A:B:C) by weight	20:10:160
Thickness of layer	6 mm to 150 mm
Pot life	60 min at 20°C
Ambient /Substrate Temperature	15°C to 35°C
Application Temperature	-35°C to 85°C
Color of Mixture	Grey
Final Set	14 days at 20°C

TECHNICAL DATA

Density (at 25°C)	2.1kg/L
Compressive Strength (3 days)	>55MPa
Compressive Strength (7 days)	>65MPa
Compressive Strength (14 days)	>95MPa
Tensile Strength (14 day)	>12MPa
Flexural Strength (14 days)	>30MPa

PRODUCT USES

ERG™300 is a three-component, multipurpose, moisture tolerant, epoxy grout is ideally designed for free-flow grouting of gap thicknesses from up to 150 mm in tropical conditions for use in the following applications:

- **Infrastructure and Heavy Machinery:** Essential for bridge bearings, chemical tanks, compressors, and crane rails, where stability is critical.
- **Industrial Equipment:** Optimal for crushers, grinding equipment, mechanical rotating



Low Exothermic Epoxy Resin Grout - ERG™LE

equipment, and presses, ensuring reliable operation.

- **Dynamic and Static Loads:** Ideal for fans, motors, pumps, and skid-mounted equipment, providing a stable foundation that supports both dynamic and static loads.
- **Precision and Stability Needs:** Crucial for post-installed anchor bolts and rotating equipment foundation rebuilds, where precision and stability are paramount.
- **Repairing damaged foundations:** The wear and tear caused by heavy machinery, such as lathes, mills, and cranes, can have a long-term impact on the cement foundations that support them. Specifically engineered, easy-flowing epoxy grouts can be applied to repair and fill cracks and voids within machinery that is already set in cement. A stable foundation for grouting heavy equipment reduces downtime, increases efficiency, and preserves ROI.
- **Grouting beneath baseplates:** A good quality precision resin-based grout, provides good load transfer and be easy to apply under most conditions.

HOW TO USE

Substrate Preparation

- **Concrete:** Substrates must be sound, dry, clean and free from laitance, ice, standing water, grease, oils, old surface treatments or coatings and all loose or friable particles must be removed to a
- **Steel:** Must be cleaned and prepared thoroughly to an acceptable quality standard by blast cleaning and vacuum.

Mixing

- Mix components A and B in a pail for approximately 30 - 60 seconds with a paddle attached to a low speed drill (300 - 450 rpm). Avoid aeration while mixing until the material becomes uniformly blended in colour and viscosity.
- Slowly add the component C and mix until uniform and homogeneous (approximately 3 minutes).
- The minimum ambient temperature required for reactions is 5°C.

Placing

- The mixed grout should be poured steadily from one side only to eliminate the entrapment of air
- Continuous grout flow is essential.
- Sufficient grout must be available prior to starting.
- The time taken to pour a batch should be regulated to the time taken to prepare the next batch.
- For thicknesses greater than the recommended amount, grouting should be done in several layers, leaving a gap between the implementation of each layer and after the initial hardening of the previous one (about 6 to 8 hours).
- The recommended amount of grout needed to complete your project is 1.9 kg/liter. This figure is theoretical and does not include for any additional material required due to surface porosity, surface profile, variations in level or wastage etc.

STORAGE

Stored properly in original, unopened, sealed and undamaged packaging in dry conditions at temperatures between +5°C and +30°C. Protect from direct sunlight, heat and moisture.

Shelf Life

12 months from date of production.

FIRST AID

Avoid contact with eyes and prolonged irritation. In case of contact with eyes, immediately flush with plenty of water for at least 15 minutes. Call a physician. In case of contact with skin, wash skin thoroughly

For more information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

DISCLAIMER OF LIABILITY

Buyer determines suitability of product for use and assumes all risks. Buyer's sole remedy shall be limited to replacement of product within one month. Any claim for breach of this warranty must be brought within one month of the date of purchase.

AFZIR shall not be liable for any consequential or special damages of any kind, resulting from any claim or breach of warranty, breach of contract, negligence or any legal theory.

The Buyer, by accepting the products described herein, agrees to be responsible for thoroughly testing any application to determine its suitability before committing to production.