Technical Data Sheet
TDS-296-01025

ERG™

Epoxy Resin Grout

Building & Transportation | Oil, Gas & Industrial | Offshore & Onshore | Water & Wastewater

PRODUCT DESCRIPTION

CTech-LLC® Epoxy Resin Grout (**ERG™**) is the only expansive, non-shrink, low exothermic epoxy system for machinery grouting. This versatile, dual purpose product is formulated for single, large volume placements and may be used as thin as 13 mm in depth. CTech-LLC® ERG™ product is a three component, 100% solids, solvent-free system formulated to provide high-strength and superior creep resistance combined with the highest effective bearing area.

ADVANTAGES

- Permanent support for machinery requiring precision alignment.
- Low exothermal properties with early strength development.
- Long working time.
- Solvent-free clean up.
- Adjustable flow for various conditions.

TYPICAL USES

- Large volume applications.
- Foundation rebuilds and skid mounted equipment.
- Precision alignment under dynamic load conditions.
- Vibration dampening for rotating equipment.
- Aggressive chemical environments.

TECHNICAL DATA

	Unit	ERG™
Clearances	mm	25-457
Height Change	-	Positive Expansion
Effective Bearing Area	Percent	95
Creep	mm/mm	3.7*10-3
Tensile Strength	MPa	14.5
Flexural Strength	MPa	26.2
Mixing Ratio (Parts A:B:C) by Weight	-	3:1:16

INSTALLATION PROCEDURE

PREPARATION OF SUBSTRATE

All surfaces to be in contact with ERG™ product shall be free of oil, grease, laitance and other contaminants. Concrete must be clean, sound, dry and roughened to ensure a good bond. Formwork shall be constructed of rigid non-absorbent materials, securely anchored, liquid-tight and strong enough to resist forces developed during grout placement. The clearance between formwork and baseplate shall be sufficient to allow for a head box. The clearance for remaining sides shall be 25-50 mm. Areas where bond is not desired must be treated with paste wax or polyethylene. Isolation joints may be necessary depending on pour dimensions.

MIXING

For optimum performance, all components should be conditioned to between 21°C and 27°C prior to use. Pour all Component B (hardener) into pail containing Component A (resin). Mix thoroughly by hand with a paddle or with a slow speed drill and paddle mixer to avoid air entrapment. Pour mixed liquids into mortar mixer (stationary barrel with moving blades). While mixing, slowly add Component C (aggregate) and mix only until aggregate is completely wet. Add Component C (aggregate) immediately after mixing Component A (resin) and Component B (hardener).

APPLICATION

ERG™ product may be poured into place. Note that all grout shall be placed from one side to the other, maintaining contact with the bottom of the baseplate at all times.

STORAGE & SHELF LIFE

Two years in original unopened packaging when stored in dry conditions;

high relative humidity will reduce shelf life.

CAUTION

Irritant, toxic, strong sensitizer. Contains epoxy resin and amine. This product may cause skin irritation. Do not inhale vapors. Provide adequate ventilation. Protect against contact with skin and eyes. Wear rubber gloves, long sleeve shirt, goggles with side shields. In case of contact with eyes, flush repeatedly with water and contact a physician. Areas of skin contact should be promptly washed with soap and water. Do not take internally.

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IMPORTANT NOTE:
Before using any CTech-LLC® product, the user must review the most recent version of the product's technical data sheet, material safety data sheet and other applicable documents, available at www.ctech-llc.com.

WARANTY:
CTech-LLC® warrants its products to be free from manufacturing defects. Buyer determines suitability of product for use and assumes all risks. Buyer's sole remedy shall be limited to replacement of product. Any claim for breach of this warranty must be brought within one month of the date of purchase. CTech-LLC® 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 utilizing.