

ERG™ CR

Epoxy Resin Grout for Chemical Resistant Applications



Building
&
Transportation



Oil, Gas
&
Industrial



Offshore
&
Onshore



Water
&
Wastewater

PRODUCT DESCRIPTION

CTech-LLC® ERG™CR is a three component epoxy resin-based precision grout designed for chemical resistant applications. ERG™CR grout provides high flow ability, high strength, good adhesion to concrete and steel, resists degradation by corrosive chemicals and does not compromise strength.

ADVANTAGES

- Excellent chemical resistance.
- Long working time.
- Solvent-free clean up.
- Superior adhesion.
- Fast cure – Early Loading Capabilities.
- Resistant to shock and vibration.
- Excellent flow ability.
- None shrink.

TYPICAL USES

ERG™CR is used for all grouting applications, especially those requiring chemical resistance chemical environments.

TECHNICAL DATA

	Unit	ERG™
Density	gr/cm ³	2.23
Compressive Strength (7 days)	MPa	119
Tensile Strength (7 days)	MPa	16.8
Flexural Strength (7 days)	MPa	34.5
Mixing Ratio (Parts A:B:C) by Weight	-	2:1:2
Working Time at 21°C	Minutes	20

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

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™CR 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

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.

CTech-LLC[®]

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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.