

RCG™

Refractory Cementitious Grout /Mortar



Building
&
Transportation



Oil, Gas
&
Industrial



Offshore
&
Onshore



Water
&
Wastewater



PRODUCT DESCRIPTION

CTech-LLC[®] RCG™ is a high-quality cement based grout/mortar formulated for fire rating applications.

Composed of high alumina cement with carefully graded quartz aggregates, it features outstanding resistance to high temperatures and extreme temperature variations, excellent workability, moisture resistance and high initial and final adhesion strength.

ADVANTAGES

- High-quality cement based refractory mortar that is used in environments with high temperature
- Durable with high final strength.
- Easy application, mix with water.
- Rapid strength development.
- Easy to apply.
- Non-shrinking

TECHNICAL DATA

	Unit	RCG™
Density	kg/L	~1.75-1.80
Flexural Strengths	N/mm ²	> 6 N/mm ²
Compressive Strengths @30°C (28 days)	N/mm ²	18-25
Setting time @ 25°C (initial)	min.	160-185
Setting time @ 25°C (final)	min.	190-120
Service temperature	°C	up to +800
Pot life	hr.	3
Application temperature	°C	from +5 to +35

TYPICAL USES

The RCG™ is a high performance material suitable for grouting where high temperatures are developed. Typical uses include:

- Machinery Base Plates
- wind turbine tower bases
- Centrifugal compressors

- Crane rails
- Crusher – Ball Mills
- structure that subjected to high vibration, torque and impact

INSTALLATION PROCEDURE

PREPARATION OF SUBSTRATE

All surfaces to be in contact with RCG™ 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

RCG™ is a pre-mixed non-shrink grout. Pour required quantity of water into a mixing container and add 1 bag of RCG™ gradually while rotating a mechanical mixer (max. 400 R.P.M.) mix for 3-5 minutes until lump free. Addition of water should be approximately 4.75 l/25 kg bag. Do not add more than the maximum water content. This will result in loss of strength and increased segregation.

APPLICATION

RCG™ 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

- Stored in dry condition
- 18 months from the date of manufacture in original unopened sealed bag 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.