

TechnoGrout™RC

Refractory Cementitious Grout

TECHNOPOL
مقاوم سازی تکنوپل

PRODUCT DESCRIPTION

TechnoGrout™RC 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.



Buildings
Structures



Transportation
Infrastructure



Water &
Wastewater



Oil, Gas &
Industrial



Waterfront
Structures



Industrial
Facilities

PHYSICAL PROPERTIES (Refractory Cementitious Grout)

	Unit	TechnoGrout™RC
Density	kg/l	1.75-1.80
Service temperature	°C	> 6 N/mm ²
Pot life	hr.	3
Color	-	Grey
Application temperature	°C	from +5 to +35

TECHNICAL DATA

Feature	Unit	Amount
Flexural Strengths	N/mm ²	> 6 N/mm ²
Compressive Strengths @30°C	N/mm ²	18-25
Setting time @ 25°C (initial)	min.	160-185

ADVANTAGES

- use in environments with high temperature.
- Durable with high final strength.
- Easy application.
- mix with water.
- Rapid strength development.
- Easy to apply.
- Non-shrinking

TYPICAL USES

- TechnoGrout™RC is a high-performance material suitable for grouting where high temperatures are developed.
- Machinery Base Plates
- wind turbine tower bases
- Centrifugal compressors
- Crane rails
- Crusher – Ball Mills machine
- structure that subjected to high vibration, torque and impact

INSTALLATION PROCEDURE

PREPARATION OF SUBSTRATE

All surfaces to be in contact with TechnoGrout™RC 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 METHOD

TechnoGrout™RC is a pre-mixed non-shrink grout. Pour required amount of water into a mixing container and add 1 bag of RCGTM 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.

STORAGE

Store in a dry and moisture-free environment. Storage conditions can be stored in a dry place for up to 18 months from the date of production until the lid of the original bag is opened.

LIMITATIONS

- It may be harmful with skin contact
- Do not apply in freezing conditions or during precipitation
- Protect applied materials from rain, freezing, foot traffic and continuous high humidity until completely dry
- Do not use when air and surface temperatures are below +5°C and above +35°C
- Avoid heavy traffic for 24 hours

CAUTION

The use of safety glasses and chemically resistant gloves is recommended. Use appropriate clothing to minimize skin contact. The use of NIOSH-approved respirator is required to protect respiratory tract when ventilation is not adequate to limit exposure below the PEL. Refer to Safety Data Sheets (SDS) for detailed information.

FAIRST AID

Skin

Wash spared grout off skin with water and soap. If it's hard to clean use strong cleaner. wash clothing with washing machine, if they contain grout stain.

Eyes

Immediately flush with a continuous water stream for at least 20 minutes. Washing immediately after exposure is expected to be effective in preventing damage to the eyes. Seek medical advice.

If there is inhalation exposure to the grout powder, remove source of

Inhalation

exposure and move victim to fresh air. If there is breathing difficulty, give oxygen. Seek medical advice for any respiratory problems.

Ingestion

Ingestion is not a likely means of exposure for this product. If ingestion does occur, do not induce vomiting. Give nothing by mouth if victim is unconscious. Seek medical advice.

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