

PRODUCT DESCRIPTION

RCM™ is a cement-based refractory mortar for bedding of refractory bricks and for the construction and repair of heat resistant elements. It is resistant to decomposition of heat, pressure or chemical attack and retains strength and form temperatures. The basic refractory materials include alumina, silica, magnesia and lime. Excellent refractory, volume stable free from cracks after drying and after heating up to 750°C. Excellent workability and adherence. Suitable for troweled or dipped joints. Although is a heat setting mortar it has moderate strength at all temperatures from drying to maximum use temperature limit.



Refractory Cementitious Mortar - RCM™

PRODUCT FEATURES

- Suitable for applications up to 750°C.
- For resistance to freeze-thaw, air-entrained.
- Working time of one hour.
- Excellent workability and high strength.
- Easy to mix.
- Resists acid.
- Easy to apply.
- Preblended for consistency; just stir in water to assemble.
- After curing, hydraulic mortar becomes insoluble in water.

PRODUCT USES

The RCM™ is a high-performance material that works well for work in hot environments. These are typical examples:

- Interior / exterior usage
- Construction and repair of refractory elements
- Specially as bedding and doing mortar for refractory tiles and bricks, concrete blocks, furnace and surfaces with high service temperatures
- smoothing mortar with high service temperatures

TECHNICAL DATA

Density	1.75-1.80 Kg/L
Color	Grey
Tensile strength in Flexures	5 MPa
Compressive strength	37 MPa
Shelf Time	6 Months
Layer Thickness	6-20 mm
Pot life	60 min.
Application temperature	from +5 to +35 °C

HOW TO USE

SURFACE PREPERATION

All surfaces that come into contact with RCM™ products must be free of oil, grease, cement residue, and other contaminants which reduce bond between the mortar and surfaces. Concrete must be clean, strong, dry and rough to ensure good adhesion.

MIXING

RCM™ is a premixed, non-shrinking mortar. Both mechanical and manual mixing are available for fire resistant materials. A suitable mixing container should be filled with the recommended amount of water. Add the powder to the water and stir slowly until the desired consistency is reached. Mix thoroughly for at least 3 minutes. 0.55 to 0.65 liters of water for 5 kg of powder is recommended.

APPLICATION

You can manually apply refractory mortar with a spatula or trowel.

Before applying, pre-wet the surface with clean water. Before applying the refractory mortar, the surface must not have dried. The surface should have a dark matte appearance without glistening, and surface pores and pits should not contain water. Excess water should be removed as soon as possible before application using a clean sponge or clean cloth.

Bricks for fire and masonry must be stored under water for at least 10 minutes before use, if applicable. In order to achieve a dark matte finish without glistening and to ensure that surface pores and pits are water-free prior to application, excess water must be removed.

Apply the mortar by pressing it firmly against the substrate. As soon as the mortar begins to stiffen, the surface can be finished per the specifications using a float or a damp sponge.

STORAGE AND DURABILITY

Store properly in the original, undamaged packaging under dry, cool conditions between 5 and 35 degrees Celsius. Protect from the direct sunlight and frost.

CLEANUP

Clean all tools and application equipment with water immediately after use. Hardened and/or hardened material can only be removed mechanically.

FIRST AID

In case of skin contact, wash thoroughly with soap

and water. For eye contact, flush immediately with plenty of water; contact physician immediately. For respiratory problems, remove to fresh air. Wash clothing before reuse.

DISCLAIMER OF LIABILITY

AFZIR, 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 six months of the date of purchase.

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