



REFRACTORY MORTAR, WITH CEMENT, SYNTHETIC RESINS AND SPECIAL ADDITIVES FOR ENVIRONMENTS OF HIGH TEMPERATURES.



PRODUCT DESCRIPTION

DCI FIREPROOF is a high performance, polymer-modified, fast hardening one component cementitious refractory mortar, suitable for uses where it is required high resistance to high temperatures.

FIELD OF APPLICATION

- It is used as a masonry mortar for all jobs where high resistance to high temperatures is required
- It is used as the assembly and grouting of fireplaces, ovens, barbecues, flues, hoods, refractory bricks.
- It is used for smooth finishing of the aforementioned products

SUITABLE SUBSTRATES

- Concrete
- Cement Mortar
- Cement Plaster/Render
- Cement Block
- Gypsum Underlayment
- Gypsum Wallboard
- Cutback adhesive

LIMITATIONS

- Do not mix with other elements.
- Do not apply on metallic or rubber substrate.
- Do not apply on substrate subject to significant movement or vibration.
- Do not apply on not sufficient cured substrate.

strate.

- Do not bond the insulating panels on deteriorated substrates or damaged render.

APPLICATION PROCEDURE

a) Preparation of the support

The substrate must be free of dust, dirt, etc. Any traces of oils, fats, waxes, etc. they must be previously removed. Before applying, wet the substrate, bricks and all the surfaces with water until saturation parts to be joined, avoiding the stagnation of water on the surfaces.

b) Preparing the product

DCI FIREPROOF must be mixed with clean water until obtaining a homogenous mixture. After 5-10 minutes of resting, the mix should be mixed again. After this, the product is ready to be used. The water demand to be used is approximately 21-23% of DCI FIREPROOF (equal to ca. 5.25 -5.75 liters of water). The mix, produced in this way, is workable for at least 2 hours.

c) Applying the product

Apply manually with a trowel with a thickness between 0.5 cm and 2.5 cm, and then place the bricks or the other parts to be joined. Remove the excess mortar before it has completely hardened. During the hardening it is recommended to wet the parts treated with the mortar with

water in order to avoid cracks due to and drying too fast. Light the first fire after at least 24-48 hours and bring to temperature gradually, avoiding as much as possible the direct contact with the flame. This operation must be repeated at least 2 or 3 times so that the fireplace, the oven or the barbecue are fully efficient. surface suitable for the final coating.

COVERAGE / CONSUMPTION

1.3-1.5 kg/m² per mm of thickness

PACKAGING

DCI FIREPROOF is supplied in 25Kg paper bag.

SHELF LIFE

Original sealed bags of this product are guaranteed to be of first quality for 12 months if stored off of the ground in a dry area. High humidity will reduce the shelf life of the bagged product.

SAFETY INSTRUCTION

DCI FIREPROOF contains cement that, when in contact with sweat or other body fluid, can cause allergic reactions to those predisposed and irritant alkaline reactions and allergic reactions to those predisposed. It can cause damage to the eyes. Wear protective gloves, goggles and take the usual precautions for handling chemicals during use. When in case of contact with skin or eyes wash immediately with plenty of water and seek medical attention.



TECHNICAL DATA

Product identity	
Consistency:	Powder
Color:	White or Gray
Bulk density (kg/m ³):	1400
Dry solids content (%):	100
Maximum grain size:	1 mm
Classification:	EN 9981
Application data (at +23°C and 50% R.H.)	
Mix ratio:	100 parts DCI FIREPROOF with 21-23 parts by weight of water
Consistency of mix:	very pasty
Density of mix (kg/m ³):	1600
pH of mix:	12
Pot life:	over 2 hours
Application temperature:	+5°C to +40°C
Open time:	>30 minutes
Adjustability time:	approx. 60 minutes
Final performances	
According to EN 1348 (N/mm ²)	
– Modulus of elasticity (N/mm ² (after 28 days):	10000
– Flexural strength after 28 days (N/mm ²):	5.5
– Compression strength after 28 days (N/mm ²):	32
– Adhesion strength:	0.6
– Capillary water absorption [kg/(m ² ·min)]:	0.15
– Water vapour permeability coefficient (μ):	15
– Thermal conductivity (λ) (W/mK):	35
Temperature resistance after final cure:	from -30°C to +900°C
Reaction to fire:	A1

WARNING

Danger. Contains Portland Cement: Chromium VI < 2 ppm within the validity period of the product. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H335 May cause respiratory irritation. P261 Avoid breathing dust. P280 Wear protective gloves/protective clothing/eye protection/face protection. P302 + P352 IF IN CONTACT WITH YOUR SKIN: Wash with plenty of water/... P305 + P351 + P338 IF IN CONTACT WITH YOUR EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/doctor/...



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