

# PYRO PRO

EN 998-2

## Refractory adhesive mortar

### DESCRIPTION

Special mortar based on fire-proof cement, aggregates of special grading and special additives for building and proper joint-filling of firebricks. Extremely resistant to high temperatures developed in fireplaces, kilns and chimneys.

The product is accompanied by an Environmental Product Declaration (EPD) regarding the environmental impact during its life cycle. (EPD registration number: S-P-09964).

### CHARACTERISTICS/ ADVANTAGES

- High adhesion.
- Very resistant to high temperatures.
- No cracking.
- Resistant to temperature variations.
- Easy to use - simply add water.

### APPLICATION FIELDS

For building and joint-filling of firebricks in new fireplaces - kilns - chimneys - barbecues indoors and outdoors, as well as for restoring any worn parts.

## PRODUCT INFORMATION

<b>Composition</b>	Fire proof Cement, aggregates of selected grading, special additives
<b>Colour</b>	Grey powder
<b>Packaging</b>	7 kg plastic bag - 1008 kg pallet (36 boxes)
<b>Storage Conditions</b>	In the original, closed, sealed and indestructible packaging, protected from direct sunlight and frost and at temperatures from +5°C to +35°C
<b>Shelf life</b>	12 months from the date of production in unopened package

## TECHNICAL CHARACTERISTICS

<b>Specific gravity of wet mortar:</b>	1800 Kg/m <sup>3</sup>	
<b>Compressive strength in 28 days :</b>	> 15 MPa (class M15)	(EN 1015-11)
<b>Flexural strength in 28 days :</b>	> 1,2 MPa	(EN 1015-11)
<b>Resistance to temperature:</b>	Up to 1000 °C	

## APPLICATION INFORMATION

<b>Substrate temperature</b>	+5°C / +35°C
<b>Environmental temperature</b>	+5°C / +35°C
<b>Mixing ratio</b>	1.4 lt per bag of 7kg
<b>Consumption</b>	Depending on the dimensions of firebricks and joints. For bricks with dimensions 20x10x3 cm and joint width 1 cm, you need about 5 kg / m <sup>2</sup>

## APPLICATION INSTRUCTIONS

### SUBSTRATE PREPARATION

Make sure that the firebricks and the adhesion surface are clean, free of dust, oils and loose material.

Saturate before applying the fresh mortar.

### MIXING

Mix 7 kg of mortar with 1.4 lt of water until a lump-free mixture of the desired workability is obtained.

Workability of the mixture is preserved for 1 - 2 hours, depending on the ambient temperature.

### APPLICATION

Apply with a trowel and spatula. You may use plastic guides for the joints.

Clean the joints with a damp sponge before the material dries.

### TOOLS CLEANING

Raw material should be removed immediately from the application equipment with water. Hardened/mature material can only be removed mechanically.

### IMPORTANT NOTES

- The content of the bag should be protected from humidity

- Do not add excessive quantities of water as the product is more likely to have reduced strength
- Not recommended for use in extreme weather conditions (frost or heatwave). Application temperature +5°C to +35°C


## HEALTH, SAFETY & ENVIRONMENTAL PROTECTION

Detailed information and instructions regarding the safe management of the product and in matters of Health & Safety, are provided in the most recent Safety Data Sheet (SDS), copies of which are available on the company's website <https://marmoline.gr/> or upon request.

## LEGAL NOTICE

We guarantee the quality of all our products, based on their technical specifications, as described in the Declaration of Performance (CE) and this Technical Data Sheet. Such guarantee refers only to the products that we deliver for use and never to its application or final result, which largely depends on the experience and quality of work of each user and on the application conditions. The user is advised to test the product on a small scale, and if he is satisfied with the result, then to use the product on large scale in his project. All data stated in this Technical Data Sheet are based on laboratory tests. The really measurable data might differentiate due to conditions that are not subject to our control. The recommendations and implementation instructions must be considered by the user as indicative, and always with given that the product has been traded and stored according to its instructions. As it is not possible to control the parameters/conditions of its application product in practice, no guarantee is provided for the final result of each application. Consequently, no legal

liability of the Company can be established based on the information and instruction given in this Technical Data Sheet. The Company reserves the right to modify data listed in this Product Data Sheet, with no previous warning. Users must refer to the latest version of the product Technical Data Sheet.

 12 DoP: 037 MARMO-CPR	
NORDIA SA 364 Kifissias Av., 15233 Chalandri, Athens, Greece	
EN 998-2:2016 PYRO PRO Masonry mortar	
Reaction to fire:	Class A1
Proportion of constituents:	Cement 28%, Aggregates 71,3%
Water absorption:	0.22 kg/(m <sup>2</sup> · min <sup>0.5</sup> )
Water vapour permeability:	μ= 15/35
Thermal conductivity: (tab. mean value; P= 50%)	(λ <sub>10,dry</sub> ) 0.83 W/mK
Reaction to fire:	Class A1
see detailed DoP in <a href="https://marmoline.gr">https://marmoline.gr</a>	