

MA-515 MATIFIRE

High-performance, polymer-modified, cement-based refractory mortar for laying and grouting firebricks.



PACKAGING

25kg



MIXING RATIO

4.75 L/25kg



CONSUMPTION

5 kg/m²

Description

MA-515 MATIFIRE is a high-performance, polymer-modified, cement-based refractory mortar for laying and grouting firebricks. It features high resistance to high temperatures and extreme temperature variations, excellent workability, moisture resistance and high initial and final adhesion strength.

Area of Use

-It is used for laying and grouting all kinds of firebricks in constructions where high temperatures are developed (fireplaces, wood ovens, stoves, barbecues, chimneys, etc.)
-It can be used for repairing damaged mortar joints of firebricks both indoor and outdoor.

Substrate Preparation

The surface to be covered with boards should be free of dust, grease, loose particles, paints, etc. It is recommended to dampen it before application. Use MATIART repair mortars in case of uneven substrates, to get a flat surface.

If dusty, wipe the back of the tiles with water.

Application

MA-515 MATIFIRE is slowly added to water under continuous stirring, until a homogeneous paste is formed. A low-speed mixer is recommended for mixing. To obtain a good adhesion, spread the mortar onto the substrate with the flat side of the trowel and notch with the toothed side. For the formation of wide joints, the use of plastic or metal spacers is recommended.

In case of using MA-515 MATIFIRE for grouting, joints should be filled with the product using a trowel and the final joint formation is accomplished using a suitable margin trowel. When applying outdoors or at high temperatures, repeated dampening with a sponge is recommended to avoid quick drying of the grout.

Consumption

It consumes 5kg/m² depending on the surface.

Features



Technical Data (IN +23° C AND 50% U.R.)

Form	Powder
Colour	Grey/White
Storage	12 months when stored in the original sealed packaging in a dry place.
Mixing Ratio	4.75 litres of water / 25 kg powder
Application Temperature	(+5°C) - (+35°C)
Bulk Density of Dry Mortar	1.55 ± 0.10kg/l
Bulk Density of Wet Mortar	1.80 ± 0.10kg/l
Compressive Strength (EN 1015-11)	Category M25
Flexural Strength	> 6 N/mm ²
Initial Shear Strength	0.15 N/mm ²
Density (Dry Hardened Mortar) (EN 1015-10)	1,700 kg/m ³
Water Absorption (EN 1015-18)	0.3kg/m ² min ^{0.5}
Water Vapor Permeability (EN 1745)	μ 15/35
Thermal Conductivity (λ _{10, dry}) (EN 1745)	0.75 W/mK
Pot Life	3 Hours
Service Temperature	Up to +1 200°C
Reaction to Fire (EN 13501-1)	A1
Dangerous Substances	See SDS

MATIS Construction Chemicals

Tiranë, Albania

info@matís-eu.com

www.matis-eu.com

T: +355 69 20 94 570

THIS TECHNICAL DATA SHEET SUPERSEDES ALL PREVIOUS EDITIONS RELEVANT TO THIS PRODUCT

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DISCLAIMER: The above technical data, information, recommendations and guidance are based on scientific and technical knowledge, laboratory studies and long experience. However, the above information is considered to be as indicative and should be reviewed in any case in relation to each specific application conditions. Consequently, the suitability of each product in any application must be evaluated after referring to the updated Technical Data Sheet and to the website www.matis-eu.com, as well as after contacting the technical support department, in case of necessity. Our company guarantees the quality of the product itself, whilst in any case the user/applicant is exclusively responsible for any undesirable failures after using the product.