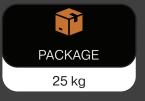




# MA - 515 MATIFIRE











## **Description**

MA-515 MATIFIRE is a high-quality cement based refractory mortar that is used in environments with high temperature.

### **Properties**

- -Perfect adherence.
- -Can be applied on vertical surfaces even for bonding heavy tiles.
- -Can be applied easily.

## **Application**

- -Substrates must be sound, free from oil, grease and sufficiently dry. Cementitious substrates must be cured.
- -Use repairing mortar in case of uneven substrates to get a sound and flat surface.
- -Wipe the back side of tiles with water if dusty.
- -Pour 25 kg of MA-515 MATIFIRE into 4.75L of water slowly and mix to obtain a homogeneous paste free from lumps. A low-speed mixer is recommended to mix. Do not add any additive which is not mentioned in the instructions for the application.
- -Allow to stand for 5-10 minutes to mature. After 1-2 minutes remixing, the paste is ready for application.

- -Consumption is 3-5 kg/m2.
- -Consume the prepared mortar within 6 hours.
- -Spread the mortar onto the substrate with a notched trowel, the notch size of which is appropriate to the tile dimension. To obtain a good adhesion, first apply a thin coat of the mortar with the flat side of the trowel, then notch with the toothed side of the trowel.
- -Open time is 30 minutes. Install the tiles within this period with firm pressure. Unfavourable climatic conditions (high temperature, low humidity, wind, etc.) can reduce this time to just a few minutes. If this period is exceeded, scratch and discard the mortar.
- -Clean tools and hands with water, surfaces with a damp cloth.
- -Tiles installed with MA-515 MATIFIRE must not be subject to water for at least 24 hours.
- -Product application temperature and storage conditions should be between +5°C and +35°C.

#### **Shelf Life**

12 months when stored in the original sealed packing in dry place.

#### **Storage**

Store in dry medium. Do not stack more than 10 bags on top of each other.



# TECHNICAL DATA (IN +23°C AND 50% RH.)

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	$1.80 \pm 0.10$ kg/l
Compressive Strength (EN 1015-11)	Category M25
Flexural Strength	> 6 N/mm <sup>2</sup>
Initial Shear Strength	0.15 N/mm <sup>2</sup>
Density (Dry Hardened Mortar) (EN 1015-10)	1,700 kg/m <sup>3</sup>
Water Absorption (EN 1015-18)	$0.3 \text{kg/m}^2 \text{min}^{0.5}$
Water Vapor Permeability (EN 1745)	μ 15/35
Thermal Conductivity (λ <sub>10,dry</sub> ) (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