

MT-450 MATITHERM

High-performance, fibre-reinforced, polymer-modified, cement-based adhesive for thermal insulation boards.



PACKAGING
25kg



MIXING RATIO
5.5-6.5 L/25kg



CONSUMPTION
3-5 kg/m²

Description

MT-450 MATITHERM is a polymer-modified, cement-based adhesive for thermal insulation boards.

Area of Use

- It is used for external thermal insulation systems when used in combination with MATIS premium renders.
- It is used for bonding thermal insulation boards of extruded or expanded polystyrene to facades made of concrete, render, or masonry.

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.

Application

MT-450 MATITHERM is slowly added to water under continuous stirring, until a homogeneous paste is formed. A low-speed mixer is recommended for mixing. The mixture should be left to rest for about 5 minutes before is stirred again for a bit.

Consumption

It consumes 3-5kg/m² depending on the surface.

Remarks

- MT-450 MATITHERM contains cement that reacts with moisture forming alkaline solutions, thus is classified as irritant.
- Please consult the directions for safe use and precautions written on the packaging before use.

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	5.5-6.5L of Water / 25kg
Application Temperature	(+5°C) - (+35°C)
Pot Life	3 Hours
Bulk Density of Dry Mortar	1.50 ± 0.10kg/l
Compressive Strength (EN 1015-11)	≥ 12.00 N/mm ² Class CS IV
Flexural Strength	≥ 5.00 N/mm ²
Adhesion to XPS (28 Days) (EN 998-1)	≥ 0.20 N/mm ²
Adhesion to EPS (28 Days) (EN 998-1)	≥ 0.10 N/mm ² (EPS Failure)
Thermal conductivity (λ _{10,dry}) (EN 998-1)	0.47 W/mK for P=50%
Capillary Water Absorption (EN 998-1)	≤ 0.1 kg/m ² min ^{0.5} W _{c2}
Water Vapour Permeability Coefficient (μ) (EN 998-1)	≤ 19
Reaction to fire (EN 13501-1)	A1
Dangerous Substances	See SDS

MATIS Construction Chemicals

Tiranë, Albania

info@matis-eu.com

www.matis-eu.com

T: +355 69 20 94 570

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

2/2

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.