

ARKIM ARTHERM AD/7211

■ Definition

Cement based adhesive mortar for thermal insulation boards

■ Application area

- It is used for bonding polystyrene sheets (XPS, EPS, Rockwool) in all structures and sheathing processes.

■ App features

-Usability time max. 2 hours
-Working time max. 10-15 minutes
-Time required to apply plaster on the pasted insulation board: 2 days

■ Surface preparation

- The surfaces on which ARKIM ARTHERM AD will be applied must be free of dust, dirt, oil, etc. It should be cleared of residues that will prevent sticking, such as
- If there are defects on the application surface, they are corrected with ARKIM ARREPAIR THIN or ARKIM ARREPAIR THICK.
- Care should be taken to ensure that the surface is cured and solid.
- If the application surfaces are porous, they should be wetted.
- Care should be taken to ensure that the applied surface is on a solid carrier and also in balance.

■ Application conditions

-Ambient temperature between +5 °C and +35 °C,
- It should not be applied on frozen, melting or frost risk surfaces within 24 hours.
- It should not be applied under direct sun, strong wind or on hot surfaces.

■ Warnings and Advice

-Absolutely no foreign substances should be added.
-After the application, all the tools used should be washed with water before they dry.
-It is not applied in unstable low-resistance places.

■ Application tools

Hand mixer, steel trowel, notched trowel

■ Application

- The container in which the mortar will be prepared must be clean and free from the residues of the previous mixture.

Attention should be paid to the cleanliness of the water and materials used.

-Mortar 5.5-6 liters of water25 kg It should be prepared at the rate of ARKIM ARTHERM AD .

-Water is poured into the container first, and then the powder is gradually sieved. It is mixed until a homogeneous mixture is obtained.

-A low speed mixer should be used to make the mixture homogeneous.

-After obtaining a homogeneous mixture, it is rested for 5-10 minutes for the mortar to mature.

-It should be mixed again for 1-2 minutes before starting the application.

- After the mixture becomes homogeneous, no powder, water or any other substance should be added.

- ARKIM ARTHERM AD should be applied according to the flatness of the floor to be adhered, if the floor is in a flat structure, combing should be done behind the board, if the floor is not flat, it should be applied with the mortar clustering method behind the board.

- During the bonding process, whether the plates are at the same level should be checked with a gauge or a spirit level.

-The prepared mortar should be consumed within 3 hours.

-Expired or crusted mortar in the container should be discarded.

-After the application, hands and application tools should be washed with plenty of water.

-Depending on the ambient temperature and surface properties, mechanical anchoring should be done after at least 24 hours.

■ Consumption

Approximately 3-5 kg/ m²

• Performance Information

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- Unit Volume Mass of Fresh Mortar with Holes: $\geq 1000\text{kg/m}^3$
- Sieve analysis: Amount remaining on the sieve at 1 mm aperture $\leq 1.0\%$
- Flexural Strength: $\geq 2 \text{ N/mm}^2$
- Compressive Strength: $\geq 6 \text{ N/mm}^2$
- Adhesion Strength to Thermal Insulation Board: $\geq 0.08\text{N/mm}^2$
- Water Absorption: for 30 minutes; $\leq 5\text{g}$
- Water absorption: for 240 minutes; $\leq 10\text{g}$

- Adhesive Strength to Substrate: $\geq 0.5 \text{ N/mm}^2$
- Fire Class: A1
- Temperature resistance: $+5^\circ\text{C}$ to $+30^\circ\text{C}$
- Note: The application properties have been obtained as a result of experiments carried out in a laboratory environment ($23 \pm 2^\circ\text{C}$ and $50 \pm 5\%$ humidity and no air flow) and may vary according to different ambient conditions. Performance information has been tested in the environments specified in accordance with the relevant standard of the product, and results may differ in different environments.

- **Reference Standards**

- TS 13566
- G mark
- Public Works Pos No: 04.480

- **PACKAGING**

- 25 kg Kraft bag,
- 64 pieces per pallet, 1600 kg

- **Physical state**

- Gray, powder

- **Storage Conditions**

- Care should be taken to place a maximum of 10 layers of kraft bags on top of each other during storage.
- Storage should be done indoors and in areas away from direct sunlight.
- The bags should be stored in such a way that they do not touch the ground and be protected from moisture.
- Under these conditions, the product can be stored for 12 months from the date of manufacture.
- Improper storage conditions or exceeding the period of use may deteriorate the qualities of the product.

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