

PALADIN THERM

PROVISSIONAL DATA SHEET

PALADIN THERM Adhesive and Base Coat for EIFS / ETICS*

PALADIN THERM is a high performance, polymer-modified cementations adhesive and base coat specially formulated for EIFS/ETICS has been proven to provide energy savings in commercial buildings and residential houses by as much as 60%. **PALADIN THERM** is pre weighted and pre packed ready to mix at site requiring only the addition of clean water.

(*Note: EIFS = External Insulation and Finish System (USA term)
ETICS= External Thermal Insulation Composite System (European term).

USERS

PALADIN THERM is used to bond insulation slabs based on expanded / extruded polystyrene and mineral wool to masonry, bricks, concrete, galvanized metal lath, exterior grade gypsum sheathing, cement boards and plasters. It is also used as a bedding mortar to embed reinforcing fabric forming the base coat.

DIRECTION FOR USE

Surface Preparation: Substrate must be clean, dry and free from dirt, grease, coating, efflorescence, curing compounds and other foreign matters. Substrate must be flat within 6mm in a 1.2meter radius.

Mixing (Adhesive and Base Coat)

- One x 25Kg bag will require approximately 5.75-6 liters of clean, potable water. First, put the required amount of water in a suitable mixing container than slowly add powder while mixing with a slow speed electric drill fitted with a paddle. Mix in a circular and up-down motion until homogeneous. After mixing, allow to stand for at least 5 minutes, then re-mix again for at least one minute adding small amount of water if necessary.
- **Adhesive** (Full bed) – Using a steel trowel, apply the adhesive on the back side of the insulation board completely covering it at a thickness of 4 mm. Using the notched side of the trowel*, scrape the adhesive so that the ribbon runs vertically when the insulation board is fixed on the wall. Immediately place the insulation board on the wall taking care that no excess adhesive gets in to the board joints. Position the board and lightly tamp to ensure good bond. Allow to cure undisturbed for at least 24 hours.

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- **Base Coat** – Prepare the surface to receive base coat by rasping the entire surface with a fine emery paper (#12grit). Any high spots greater than 1.5mm should be sanded flush. Remove any loose material using compressed air (Oil-free). Using a trowel, apply approximately 1.5mm thick base coat onto the insulation board completely covering the surface. Immediately embed the reinforcing fabric (see Note #7) trawling from the center to the edge to avoid wrinkles. After applying the first layer, apply another layer of base coat completely covering the reinforcing fabric. Minimum base coat thickness should be 4mm. Level and finish smooth with a straight edge. Allow base coat to dry for at least 24 hours before applying any finish.

Notes:

1. When fixing the boards, but them tightly together or else gaps can cause cracking in the base coat and finish.
2. As with all cementations system, protect the base coat while still fresh from direct sunlight, rain and high wind movement.
3. Place the boards so that all vertical joints are arranged in a staggered order.
4. The fabric must be fully embedded with base coat. If after draying, the mesh color or pattern is visible, apply additional base coat. Overlap mesh edges at least 50mm.
5. DO NOT apply the adhesive directly on the substrate. Always apply on the insulation board.
6. Store bags in shaded place away from direct sunlight. Use chilled water especially during hot summer months.
7. Reinforcing fabric **PALADIN** weighing 160grams/square meter Tensile Strength 2000N/5cm is highly recommended. For high - impact areas, consider a double layer of base coat.

PACKING / COVERAGE

PALADIN THERM is packed in 25 Kg bag and when mixed with water will cover approximately 10.5 sq. meters (adhesive) or 7 sq. meters (4mm thick base coat)

HEALTH / SAFETY

Prevent inhalation of dust. May cause mild imitation to skin and eyes. Always use protective eye goggles, gloves, dust mask and coveralls. If accidently spilled on the skin, wash with water. If accidently spilled in the eyes, wash with plenty of water. If reddening or irritation persists, consult a physician. Refer to MSDS for more safety instructions.

SHELF LIFE

Twelve months when stored in original, un-opened packing under warehouse condition. Due to warehouse set some lumps may occur in the powder. These lumps must be removed.

Technical Information, data are to be considered as typical values and not sales specification. Actual measured values may vary due to factors beyond our control indication concerning function and applications of the products are empirical. Although the information is believed to be accurate, there is no warranty by ACI. None of the recommendation becomes part of the warrantied quality of the products. Due to the fact that the condition of individual use are beyond ACI's direct and continuous control, ACI disclaims all responsibility in connection with the use of its products and does not warrant against any loss direct or consequential.
