

Cat No. CONREP 16-1503

# ISOLITH BAS

## Base Coat and Adhesive for EIFS/ETICS\*

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

(\*Note: EIFS = External Insulation and Finish system (U.S.A term)  
ETICS = External Thermal Insulation Composite System (European term).

### USES

**ISOLITH BAS** 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.

### SPECIFICATION

**ISOLITH BAS** conforms with the requirements of ETAG 004 and ASTM E 2486-06.

### TYPICAL PROPERTIES

- |                     |   |
|---------------------|---|
| • Bond strength     | + 0.08N/sq.mm on EPS<br>+ 0.25N/sq.mm on concrete |
| • Impact Resistance | + 3 joules  |
| • Water absorption  | Less than 0.1 Kg/m <sup>2</sup> . 0.5 hour        |
| • Pot life*         | 1 – 2 Hours                                       |
| • Drying Time*      | Within 24 Hours                                   |

\* (Note: dependent on ambient weather conditions)

### 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 6 mm in a 1.2 meter radius.

### Mixing (Adhesive and base coat)

- One x 25 Kg bag will require approximately 5.5-6 liters of clean, potable water. First, put the required amount of water in a suitable mixing container then 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. Mix must be free of any lumps before using.

### Application

- **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 3-4 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.

\*(Note: notch size 9.5mm wide x 12.7mm deep spaced 38mm apart is recommended).

- **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 1.5 mm should be sanded first. 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) trowelling 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 3mm. 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, put them tightly together or else gaps can cause cracking in the base coat and finish.
2. As with all cementitious 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 drying, 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 such as **PALADIN** brand from Germany weighing 160 grams/ square meter is highly recommended. For high-impact areas, consider a double layer of base coat or use a heavy duty mesh (325 grams/sq.m)

**PACKING / COVERAGE**

**ISOLITH BAS** is packed in 25 Kg bag and when mixed with water will cover approximately 10 sq. meters (adhesive) or 6.5 sq.meters (3mm thick base coat).

**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.

**HEALTH / SAFETY**

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

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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. Indications concerning function and application of the products are empirical. Although the information is believed to be accurate, there is no warranty by ISOLA. None of the recommendations becomes part of the warranted quality of the products. Due to the fact that the conditions of individual use are beyond ISOLA's direct and continuous control, ISOLA disclaims all responsibility in connection with the use of its products and does not warrant against any loss direct or consequential

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