Technical Bulletin #1.1

ADEX base coat

DESCRIPTION

- ADEX base is a 100% acrylic polymer-based compound that meets the CAN/ULC S114 non-combustibility standards.

USE

- ADEX base is used to adhere expanded polystyrene and mineral wool insulation boards to various substrates, such as exterior grade gypsum board, glass-mat faced gypsum board, cement board, brick, concrete block, poured concrete and precast concrete. It is also used to embed reinforcement mesh over insulation boards as well as to level concrete and masonry surfaces (thickness of 1.6 mm to 2.4 mm (1/16" to 3/32") per coat).

PACKAGING

- 27.2 kg (60 lbs) plastic pail.

COVERAGE

- Approximately 11 m^2 (120 ft^2) per pail when adhering insulation boards and embedding reinforcement mesh.
- Approximately 18.6 m^2 (200 ft^2) when embedding reinforcement mesh.
- When using as a levelling compound, coverage will vary in relation to the applied thickness.
- Coverage will vary based on the substrate, job conditions and the individual application techniques.

SURFACE PREPARATION

- ADEX base must be installed on an approved substrate or on a surface that has been specifically designed for its use.
- Surfaces must be clean, dry, and in good condition, without efflorescence, grease, oil or paint.
- Protect and mask surrounding areas from accidental contact with ADEX base.

MIXING

- In a clean container, mix ADEX base with fresh, lump-free GU Type Portland cement at a ratio of 1:1 by weight.
- Thoroughly mix to a homogenous state. Allow mixture to set up for 5 minutes and mix again to break the initial set.
- Small amounts of water may be added to adjust the consistency and workability. All other additives (antifreeze, accelerators, or otherwise) are strictly forbidden and may void warranties.

APPLICATION

As Adhesive:

- Apply ADEX base to the back of ADEX EPS-GD insulation boards using an appropriately sized notched trowel. Ensure the ribbons of adhesive run vertical (parallel to the short dimension of the insulation board) to allow for drainage of incidental moisture.
- To ensure a strong bond, immediately press the insulation board into place and apply firm pressure across the entire board surface. Tamping is not recommended.
- Do not allow the ribbons of adhesive to dry before the insulation board is installed.

As base coat:

- Prior to application, ensure the surface of the insulation boards have been sanded providing a smooth, even surface free of irregularities.
- Apply ADEX base coat over the entire insulation board surface to a uniform thickness of 1.6 mm (1/16"). Immediately embed ADEX reinforcement mesh into the wet ADEX base coat trowelling from the centre of the mesh outwards to prevent wrinkles in the mesh. Smooth the base coat to eliminate trowel lines.
- The final thickness of the ADEX base coat shall be sufficient enough so that the ADEX reinforcement mesh is fully embedded and not visible.
- Apply additional coats of ADEX base where required once the initial application is dry.

As Skim coat:

- When levelling, apply a 1.6 mm to 2.4 mm (1/16" to 3/32") coat of ADEX base to the prepared surface. Reapply skim coats as required once the initial application is dry.

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Adhesion
EIMA 101.03 (Requirement ≥ 100 Kpa)
Pass.
Water Vapour Permeability
ASTM E96-95 (Requirement ≥ 170 ng/ Pa·s·m^2)
Pass.
Water Impermeability
UEAtc Directives for EIFS, Article 3.3.1.1:
Pass.
Non-Combustibility
CAN/ULC S114
Pass.

Properties
Test Method
Result

CLEAN UP

- Immediately wash tools with water while material is still wet. Hardened material will have to be removed physically.

CURING

- Approximately 24 hours under normal climatic conditions.
- Curing time is dependent upon the ambient and surface temperatures and the relative humidity.
- Protect from rain and freezing temperatures until fully dry.

STORAGE

- Protect material from direct sunlight, extreme heat and freezing temperatures.
- Store unused material in tightly sealed containers.

SHELF LIFE

- Minimum 12 months if properly stored in an airtight container.

LIMITATIONS

- Ambient and surface temperatures must be kept at or above 5 °C (41 °F) for a minimum of 24 hours.
- During installation, minimise the containers' exposure to extreme heat (temperatures above 32 °C (90 °F)).

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