

THERMAL INSULATION



Vetotherm Flex

Cementitious based adhesive and base coat for EIFS /ETICS

Uses

- Expanded and extruded polystyrene and rock wool adhesive on cementitious substrates, masonry, and gypsum boards.
- Fiber mesh reinforced base coat as part of EIFS / ETICS systems.
- Ready to receive a wide range of decorative finishes.

Product Description

Vetotherm Flex is a polymer-modified deformable cementitious adhesive specially designed for permanent fixing of thermal insulation boards to a wide range of substrates, including concrete and masonry. Vetotherm Flex is also designed for use as a protective mortar that provides a durable layer for insulation boards suitable for several decorative finishes.

Advantages

- Single component easy to apply.
- Water resistant.
- Thixotropic, non-sag.
- High physical and mechanical properties.
- Deformable and impact resistant.
- Requires no primer.

Technical Data

Vetotherm Flex	Typical Values @ 25°C
Appearance	Grey Powder
Wet Density (Kg/L)	1.6 Approx.
Pot Life (Minutes)	120
Compressive Strength @ 28 Days EN 1015-11 (N/mm ²)	> 7
Flexural Strength @ 28 Days EN1015-11 (N/mm ²)	> 1.5
Bond Strength to Concrete (ETAG 004): Dry Conditions (MPa) 2 Days Water 2 hrs. dry (MPa) 2 Days Water 7 days dry (MPa)	≥ 0.7 ≥0.30 ≥ 0.7
Bond Strength to insulation material (ETAG 004): Dry Conditions (MPa) 2 Days Water 2 hrs. dry (MPa) 2 Days Water 7 days dry (MPa)	≥ 0.15 ≥0.8 ≥ 0.15
Water Absorption after 24 Hours (ETAG 004) (Kg/m ²)	< 0.5
Thermal Conductivity Coefficient - EN1745, A12 (W/ mK)	0.45
Hard body Impact resistance (EN ISO 7892):	10 J Pass 3 J Pass

Standards Compliance

- ETAG 004 requirements for ETICS / EIFS systems.
- ANSI/EIMA requirements for ETICS / EIFS systems.

Usage Instructions

Surface Preparation

All surfaces must be clean and free from oil, grease, or loose materials. The insulation board has to be fixed firmly by using Vetotherm adhesives and anchors.

Fill the large gaps between insulation boards with strips of insulation board to leave minimal gaps, or fill with PU foam of similar U-Value to the insulation boards.

Protect all the buildings by using PVC Vetotherm accessories unless otherwise is specified.

Priming

Apply Vetotherm Flex directly on concrete, cement plaster, and masonry. In the case of very porous substrates, spray water onto the surface prior to the application.

Mixing

To ensure proper mixing, use a mechanically powered mixer or heavy-duty drill fitted with a suitable paddle.

Add 6.5 - 7.75 Liters (for each 25 kg bag) of clean water to a clean container. Add the powder slowly to the water while mixing continuously with a low-speed mixer/ heavy-duty drill (400 - 600 rpm) fitted with a suitable mixing paddle. Continue mixing for 3 minutes or until obtaining a uniform consistency.

Leave the mixture for 5 - 10 minutes to mature, then remix without adding additional water.

Application

As an Adhesive

Apply the mortar in a strip around the insulation board with enough spots to ensure full coverage. In a smooth or plastered substrate, employ the back buttering technique. Use a notched trowel to spread the mortar on the back of the insulation board.

As a Base Coat and Protective Layer

Apply the mortar over the fixed thermal insulation panels. Using an aluminum roll, embed the pre-cut reinforcing mesh onto the freshly applied mortar until fully immersed in the Vetotherm Flex layer.

Smoothen the surface with a long flat trowel. Apply more than one Vetotherm Flex layer where it is needed. Use a double or triple reinforcement mesh.

Legal Disclaimer

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Note:

- Mesh strips have to be overlapped by approximately 10 cm.
- This material is a thin bed adhesive and can not be applied for more than 10mm thickness.
- When using Vetotherm Flex as a base coat or as a protective layer, the maximum allowable thickness is 3mm.

Cleaning

Clean all tools immediately after finishing with water. Clean hardened materials mechanically.

Packaging & Coverage

Product	Pack Size	Yield
Vetotherm Flex	25 kg Bag	≈ 20 Lit/ 25 kg bag

Stated consumption data are for general guidance. Actual consumption depends on the nature of the substrate, method of application, and wastages.

Shelf Life & Storage

The original sealed bag of Vetotherm Flex has a shelf life of 12 months, provided to store clear ground in a dry, shaded place below 35°C.

Health & Safety

Vetotherm Flex is highly alkaline; therefore, avoid direct contact with eyes or skin. It is recommended to use protective gloves and goggles during application. Wash any skin contact with soap & water. In case of eye irritation, immediately wash with a copious amount of clean cold water. Seek medical advice.

Vetotherm Flex is non-flammable.

For further information, please refer to the material safety data sheet.

Additional Information

Saveto manufactures a wide range of construction chemicals and specialty products for various applications.

For further information on these products and systems kindly check our website or contact your local Saveto representative.