

THERMAL INSULATION



Vetotherm Ultra

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 Ultra 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 Ultra 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.
- Specifically designed for Rockwool and Glass Wool panels.
- High flexibility.

Technical Data

Vetotherm Ultra	Typical Values @ 25°C
Appearance	Grey Powder
Wet Density (Kg/L)	1.7
Pot Life (Minutes)	120
Compressive Strength @ 28 Days BS EN 1015-11 (N/mm ²)	> 8
Flexural Strength @ 28 Days ASTM C348, EN1015-11 (N/mm ²)	> 5
Bond Strength to Concrete (ETAG 004): Dry Conditions (MPa) 2 Days Water 2 hrs. dry (MPa) 2 Days Water 7 days dry (MPa)	≥ 1.0 ≥ 0.50 ≥ 1.0
Bond Strength to insulation material (EPS): Dry Conditions (MPa) 2 Days Water 2 hrs. dry (MPa) 2 Days Water 7 days dry (MPa)	≥ 0.15 ≥ 0.8 ≥ 0.15
Coefficient of Water Absorption by Capillary Action -EN1015-18	< 0.1
Water Absorption after 24 Hours (ETAG 004) (Kg/m ²)	< 0.5
Thermal Conductivity Coefficient - EN1745, A12 (W/ mK)	0.45
Water Demand (%)	0.36 - 0.39
Hard body Impact Resistance (EN ISO 7892):	15 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 firmly fixed using Vetotherm adhesives and anchors. Fill the large gaps between insulation boards with insulation boards' strips to leave minimal gaps or filled with PU foam of similar U-Value to the insulation boards. All edges of the building need to be protected by PVC Vetotherm accessories unless otherwise specified.

Priming

Apply Vetotherm Ultra directly on concrete, cement plaster, and masonry. In very porous substrates, spray water onto the surface before the application.

Mixing

Ensure to use a mechanically powered mixer or heavy-duty drill fitted with a suitable paddle for proper mixing. Add 9 - 9.75 liters of clean water (for each 25 kg bag) 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 until obtaining a uniform consistency.

Application

As an Adhesive:

Apply the mortar in a strip around the insulation board with a few spots in the middle. In a smooth or plastered substrate, employ a back buttering technique and use a notched trowel to spread the mortar on the insulation board's back.

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 its fully immersed in the Vetotherm Ultra layer.

Smoothen the surface with a long flat trowel. Where needed, apply more than one Vetotherm Ultra layer, use a double or triple reinforcement mesh.

Note: Mesh strips have to be overlapped by approximately 10 cm.

Legal Disclaimer

Saveto endeavors to ensure that any advice, recommendations, information it may give is accurate and correct. It cannot accept any liability either directly or indirectly arising from the use of its products because it has no direct or continuous control over where or how its products are applied, whether or not following any advice, specification, recommendation, or information given by us. Saveto has the right to change any of the technical datasheets specifications upon its discretion without prior notification.

Hard copies of TDSs are printed once or twice a year. Our technical data sheets are continuously updated as per R&D improvements and new 3rd party testing; kindly refer to our website for the latest updated TDSs.

Cleaning

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

Packaging & Coverage

Product	Pack Size	Yield
Vetotherm Ultra	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 Ultra has a shelf life of 12 months, provided it is stored clear of ground in a dry, shaded place below 35°C.

Health & Safety

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