



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 to be used 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 providing a durable layer for insulation boards that is suitable to receive several types of 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 glasswool panels.
- High flexibility

Standards Compliance

- ETAG 004 requirements for ETICS / EIFS systems.
- ANSI/EIMA requirements for ETICS / EIFS systems.
- ISO 13007:2010 as C2TE S2
- EN12004:2010 as C2TE S2

Technical Data

Vetotherm Ultra	Typical Values @ 25°C
Appearance	Grey Powder
Wet Density	1.7 Kg/Liter
Pot Life	120 minutes
Compressive Strength ASTM C109	> 16 N/mm ² @ 28 Days
Flexural Strength ASTM C348, EN1015-11	> 5 N/mm ² @ 28 Days
Bond Strength to concrete EN 1015 - 12	> 2 N/mm ² @ 28 Days
Adhesion Strength with EPS Boards: EN13494	> 180 KPa @ 28 days
Coefficient of Water Absorption by Capillary Action -EN1015-18	< 0.1
Thermal Conductivity Coefficient - EN1745, A12	0.9 W/ mK
Water Demand	0.36 - 0.39 %

Usage Instructions

Substrate 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. Large

gaps between insulation boards must be filled with strips of insulation board 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

Vetotherm Ultra can be applied directly on concrete, cement plaster and masonry. In case of very porous substrates, water should be sprayed onto surface prior to the application.

Mixing

To ensure proper mixing, a mechanically powered mixer or heavy duty drill fitted with suitable paddle should be used. Add 9 - 9.75 liters (for each 25 kg bags) of clean water to a clean container. The powder is then added slowly to the water while mixing continuously with low speed mixer/ heavy duty drill (400 - 600 rpm) fitted with a suitable mixing paddle.

Mixing time should be continued for 3 minutes until a uniform consistency is obtained.

Application

As an Adhesive:

Apply the mortar in a strip around the insulation board with a few spots in the middle. In case of a smooth or plastered substrate, back buttering technique can be employed and a notched trowel can be used 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 precut reinforcing mesh onto the fresh applied mortar until its fully immersed in the Vetotherm Ultra layer.

Smoothen the surface with a long flat trowel. More than one Vetotherm Ultra layer can be applied and where needed double or triple reinforcement mesh can be used.

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

Cleaning

All tools should be cleaned immediately after finishing by water. Hardened materials can be cleaned mechanically.

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Packaging & Coverage

Product	Pack Size	Coverage
Vetotherm Ultra	25 Kg Bag	1.3 - 1.5 Kg/m ² / mm Thickness

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

Shelf Life & Storage

Original sealed bags of Vetotherm Ultra has a shelf life of 12 months provided it is stored clear of ground in a dry shaded place below 25°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 eyes irritation, immediately wash with copious amount of clean cold water. Seek medical advise. Vetotherm Ultra is non-flammable. For further information, please refer to material safety data sheet.

Additional Information

Saveto manufactures a wide range of construction chemicals and specialty products for various applications divided into the following product groups:

- Concrete Repair, Grouts and Enhancement.
- Wall & Facade Systems.
- Flooring and Coating Systems.
- Sealants and Joints.
- Plasters & Renders.
- Putties & Finishes
- Tiling Systems
- Waterproofing.
- Primers & Ancillary Products.
- Specialty Products.

Saveto also provides various technical information such as CAD details, detailed method statements, specification clauses, application manuals, product selectors and technical support both in contractors and consultants offices as well as construction sites.

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