

TILING



Vetofix UA451

Two-component, low viscous, semi rigid PU-based adhesive

Uses

- Suitable for both industrial and commercial applications, exhibiting excellent bonding between substrates such as artificial grass, PVC, sandwich panels, glass, cement boards, metal, wood, rubber, fiber cement, and mineral wool.
- Used as an adhesive horizontally on steel substrates.

Product Description

Vetofix UA451 is a two-component, low viscous, polyurethane-based binder system for horizontal applications, used to join sandwich panels elements and other similar constructions made of different materials. Is a blend of premium quality pure hydrophobic polyurethane resin cured with a special grade of hardener and reinforced with fine fillers.

Advantages

- Easy to mix and apply.
- Excellent adhesion between concrete and various materials.
- Room temperature curing.
- Solvent-free.
- Semi rigid.
- Long setting time

Design Criteria

Vetofix UA451 polyurethane (PU) two-component adhesives used in the construction of sandwich panels are critical for ensuring the structural integrity, durability, and performance of the panels in their applications. Sandwich panels, composed of two outer skins bonded to a core material, rely on the adhesive for load transfer between the skins and the core, as well as for overall panel stability.

Technical Data

Vetofix UA451	Typical Values @ 25 °C	
	Vetofix UA451 Base	Vetofix UA451 Hardener
Color	Beige	Brown
Mix Color	Beige	
Density (kg/liter)	1.69	1.23
Solid Content (By weight %)	100	100
Application Temperature (°C)	10 to 35	
Mixing Ratio (By weight %)	100:12	
Pot Life (Minutes)	100	
Open Time (Minutes)	110	
Press Time (Minutes)	350	
Adhesion Bond Strength ASTM D4541 (N/mm ²)	2	
Curing Time (Hours) @ 55% RH	8 - 12	

Usage Instructions

Surface Preparation

Surfaces must be clean, dry, and free from grease, oil, dust, and contaminants. After the cleaning process, a physical or chemical pretreatment might be required, depending on surface and type of material. The type of pretreatment must be determined by tests.

New concrete floors should be at least 28 days old, with a moisture content of less than 4%. If earlier application is required, the substrate should be tested for moisture conditions.

Mixing Vetofix UA451

Mix the base [Part-A] and hardener [Part-B] components of Vetofix UA451 thoroughly using a heavy-duty slow speed drill-paddle assembly for two to three minutes and ensure a homogenous mix.

Application

Properly mixed materials should be spread or filled over the cleaned surface using a suitable tool as per requirement demands on the entire area without leaving any gaps.

Cleaning

Clean tools with Vetonit Solvent XX400 promptly before material harden. Cured material must be mechanically removed.

Limitations

- Vetofix UA451 should not be applied at temperature below 10°C.
- For concrete and wooden surfaces, the moisture content should be less than 4%.
- Primer is generally not required on non-porous surfaces but may be necessary for optimal sealing of certain porous surfaces.

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.

Packaging & Coverage

Product	Pack Size	Coverage
Vetofix UA451	369.6 kg kit	0.15 - 0.35 kg/m ² /coat

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

Shelf Life & Storage

The original sealed kit of Vetofix UA451 has a shelf life of 12 months, provided it is stored clear of ground in a dry, shaded place at temperatures between 5 to 35 °C.

Health & Safety

Although Vetofix UA451 is not classified as hazardous, wear suitable protective clothing, gloves, eye protection, and respiratory protective equipment.

The use of barrier creams provides additional skin protection. In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water. In case of contact with the eye, rinse immediately with plenty of clean water and seek medical advice. If swallowed, seek medical attention immediately – do not induce vomiting.

Vetofix UA451 is non-flammable.

Vetonit Solvent XX400 is flammable. Keep away from sources of ignition. No Smoking. In the event of a fire, extinguish with CO₂ or foam.

Refer to the product Material Safety Data Sheet for further information.

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.