

## FLOORING



# Vetotop US172

Heavy-duty polyurethane hybrid flooring system

### Uses

- Ideal for mechanical and chemical exposure applications.
- Can be used in laboratories, and factories (food and Beverage, dairies, cheese and milk production, meat, fish, and poultry processing, etc.)
- Can be used in commercial and industrial kitchens
- For freezer rooms (or any area where thermal shock resistance is required).

### Product Description

Vetotop US172 is a single-layer, seamless, solvent-free, polyurethane-based flooring system. On top of having a textured matt finish, this product possesses excellent chemical & high impact resistances and withstands abrasive wear, direct steam contact, & industrial cleaning practices.

### Advantages

- Thermal shock resistance.
- High abrasion and chemical resistance.
- Low maintenance cost.
- Hygienic, impervious, and easily cleanable.
- High bonding properties (stronger than concrete cohesive strength).

### Standards Compliance

- ASTM C722
- BS EN476:2009 as class 2 in flame spread.

### Design Criteria

Vetotop US172 is designed to be a hard-wearing polyurethane screed on cementitious or metal substrates at thicknesses 6, 9, or 12 mm using a trowel. The applied product is resistant to water as well as a wide range of chemicals.

### Technical Data

Vetotop US172	Typical Values
Solid Content (by weight %)	100
Appearance	Smooth Finish
Color	Grey
Application Temperature (°C)	+5 to +35
Compressive Strength - ASTM C579 (N/mm <sup>2</sup> )	58
Flexural Strength - ASTM C580 (N/m)	14
Dynamic E-Modules - ASTM C597 (GPa)	19.5
Tensile Strength - ASTM C307 (N/mm <sup>2</sup> )	6
Adhesion Strength (EN 1542)	Concrete Fails
Abrasion Resistance - ASTM D4060 (mg)	1390
Shrinkage - ASTM C531	2.4 X 10 <sup>-5</sup> °C <sup>-1</sup>
Thermal Resistance (EN 12524, EN 12664)	1.1 W/m °C
Surface Resistivity (BS2050) (ohms)	3 X 11 <sup>-4</sup>
Density - ASTM C905	2
Water Absorption - ASTM C413 (mL)	0
Reaction to Fire (EN 13501-1)	Class2
Service Temperatures (mm)	
@ -40 to 120 °C	9
@ -40 to 120 °C	6
Traffic weight (MT)	Up to 10

## Usage Instructions

### Surface Preparation

The surface should be sound, clean, free from loose material, grease, laitance, dirt-curing compounds, etc. Laitance and weak surface layers should be removed using mechanical methods, such as grinding or blasting, to provide a sound, well-profiled surface. All necessary repairs should be made before the application process begins (Use the same material for those repairs). New concrete floors should be at least 5 days old and visibly dry (with no standing water on top). Grooves must be cut in concrete to control shrinkage. Contact Saveto for more information.

### Priming

Apply the surface-material that will serve as base for Vetotop US172 directly to sound and non-porous concrete.

### Mixing

Vetotop US172 is supplied in three pre-weighed packs (base, hardener, and aggregate) that are ready for on-site use. Do NOT mix partial quantities as it will affect both the performance and the finished floor's appearance. Mixing should be done using either a forced action mixer or a heavy-duty mobile mixer fitted with a suitable jiffy-type mixing paddle. The type & capacity of the equipment used should be approved by Saveto.

Mix the components in a suitably sized mixing container. Stir the base and hardener components individually, then empty them into the mixing vessel (scrape the edges) and mix for 2 minutes.

Slowly, add the content of the graded aggregate pack and mix for another 3 minutes until the mixture is completely homogeneous.

### Application

Spread Vetotop US172 to a uniform thickness on the primed surface using either a screed box or the edge of a steel trowel. Tamp the material with a wooden float to ensure complete compaction. Finally, finish to a closed & even texture using a steel trowel. Screeding rods are useful to maintain a minimum compacted thickness of 6 mm. Apply the material within the pot life after mixing.

### Legal Disclaimer

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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.

### Sealing

Vetotop US172 doesn't allow fluids to cross through it when applied as a layer that's 6 mm thick. Which is ideal in areas where wet areas are common and inconsistent and where a superb degree of cleanliness is necessary.

### Cleaning

Clean tools and equipment with Vetonit Solvent XX300 immediately after use.

## Packaging & Coverage

Product	Pack Size	Consumption
Vetotop US172	30 kg Kit	1.5 kg/m <sup>2</sup> @ 1 mm thickness

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

### Shelf Life & Storage

The original sealed kit of Vetotop US172 has a shelf life of 12 months, provided it is stored clear of ground in a dry and shaded place at a temperature below 30°C.

### Health & Safety

Vetotop US172 should not come into contact with your skin and eyes or be swallowed. Avoid inhalation of vapors and sprays. Use only in well-ventilated areas. In case of limited ventilation, wear suitable respiratory protection. Wear suitable protective clothing, gloves, and eye/face protection. Barrier creams provide additional skin protection.

Should accidental skin contact occur, remove immediately with a suitable skin cleanser followed by washing with soap and water. In case of contact with your eyes, rinse immediately with plenty of water and seek medical advice. If swallowed, seek medical attention immediately & do not induce vomiting. Refer to product MSDS for more 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.