



# Vetotop US172

Heavy duty polyurethane hybrid flooring system

## Uses

- Mechanical and chemical exposure applications.
- Laboratories, food and Beverage industries, dairies, cheese and milk production, meat, fish and poultry processing.
- Commercial and industrial kitchens
- Freezer rooms and applications where thermal shock resistance is required.

## Product Description

Vetotop US172 is a single layer, seamless, solvent free, polyurethane based flooring system. Its textured matt finish possesses excellent chemical resistance, withstands abrasive wear; has high impact resistance and withstands direct steam contact and cleaning practices.

## Advantages

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

## Design Criteria

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

## Standards Compliance

- BS EN476:2009 as class 2 in flame spread.
- ASTM D4364-13 weathering resistance.
- ASTM D2485-91(2013) high service temperature operation.

## Technical Data

Vetotop US172	Typical Values
Compressive Strength (BS6319:Part2)	58 N/mm <sup>2</sup>
Flexural Strength (ISO178)	14 N/mm <sup>2</sup>
Dynamic E-Modules (ASTM C597-83)	19.5 GPa
Tensile Strength (ISO R527)	6 MPa
Concrete Adhesion (BS6319:Part2)	Concrete fails
Abrasion Resistance (Taber H22)	1390mg
Coeff. Thermal Expansion (ASTM C531)	2.4 X 10 <sup>-5</sup> °C <sup>-1</sup>
Thermal Conductivity (BS874)	1.1W/m °C
Surface Resistivity (BS2050)	3X11 <sup>-4</sup> ohms
Density (BS6319:Part5)	2090 kg/m <sup>3</sup>
Water Absorption (CP.BM 2/67/2)	0 mL
Surface Spread of Flame (BS476:Part7)	Class2
Service temperatures: 9mm	-40 °C to 120 °C
Service temperatures: 6mm	-20 °C to 80 °C*
Traffic weight	Up to 10 MT

## Usage Instructions

### Surface Preparation

The surface should be sound, clean, free from loose material, grease, laitence, dirt curing compound, etc.

Laitence and weak surface layer shall be removed using mechanical methods such as grinding or blasting in order to provide a sound well profiled surface. All necessary repairs should be made prior to application by using the same material. New concrete floors shall be at least 5 days old and visibly dry with no standing water on top. Grooves must be cut in concrete to control shrinkage. Please contact Saveto for further advice.

### **Priming**

All surfaces receiving Vetotop US172 can be applied directly to sound and non-porous concrete.

### **Mixing**

Vetotop US172 is supplied in three pre-weighed packs (base, hardener and aggregate) which are ready for immediate on-site use. Part mixing of these components is not acceptable and will affect both performance and appearance of the finished floor. Mixing should be carried out using either a forced action mixer; or a heavy duty mobile mixer fitted with a suitable jiffy type mixing paddle. All such equipment should be of a type and capacity approved by Saveto. The components should be mixed in a suitably sized mixing vessel. Stir the base and hardener components individually then empty them into the mixing vessel scrapping the edges and mix for 2 minutes. The contents of the graded aggregate pack should be slowly added and mixing carried out for a further 3 minutes until a completely homogeneous material is obtained.

### **Application**

Should be spread to uniform thickness on the primed surface using either a screed box or the edge of a steel trowel. The material should be tamped with a wooden float to ensure complete compaction and finally finished to a closed even texture using a steel trowel. Screeding rods are useful to maintain a minimum compacted thickness of 6 mm. The material must be applied within the pot life after mixing.

### **Sealing**

Although Vetotop US172 is impervious at 6 mm thick in constantly wet operations areas or where a high degree of cleanliness is required.

### **Cleaning**

All tools and equipment should be cleaned immediately after use with water.

## **Packaging & Coverage**

Product	Pack Size	Coverage
Vetotop US172	30 Kg Kit	2.1 - 2.3 kg m <sup>2</sup> at 1mm 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 bag of Vetotop US172 has a shelf life of 12 months provided it is stored clear of ground in a dry and shaded place below 30°C.

## **Health & Safety**

Vetotop US172 should not come into contact with skin and eyes or be swallowed. Avoid inhalation of vapour and spray. Use only in well ventilated areas. In case of insufficient 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 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 further information.

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