

## FLOORING



# Vetotop EC493

High performance thin epoxy topping (Solvent-based & self-priming)

### Uses

- For floor and wall coating in various industrial applications such as production assembly areas, workshops, dairies, bottling plants, breweries, kitchens, showrooms, etc.
- Can be used as a sealer for Vetotop CL and XT ranges.
- Ideal for wet working areas subject to chemical spillage.

### Product Description

Vetotop EC493 is a two-component, high-performance, solvent-based, single-coat application, epoxy coating system that bonds perfectly to various substrates like concrete, metal, wood, stone, etc.

Once cured, the product has excellent abrasion and chemical resistance. Vetotop EC493 provides an attractive, durable, and easily cleanable floor finish. When used on floors and walls, Vetotop EC493 enhances the environment's lighting due to the product's reflective properties

### Advantages

- Self-priming application.
- Easily applied in a single coat.
- High abrasion and chemical resistance.
- Low maintenance cost.
- Hygienic, impervious, and easily cleaned.
- It has a slip-resistant finish.
- Available in 8 standard colors (with the possibility of custom RAL colors).
- High bonding properties (stronger than concrete cohesive strength).
- Economic installation.

### Standards Compliance

- ASTM C722
- EN 13501-1

### Technical Data

Vetotop EC493	Typical Values
Solid Content (by Volume %)	65
Recommended DFT / coat (micron)	100 - 150
Pot Life @ 12°C/54°F (Minutes)	50
Pot Life @ 40°C/104°F (Minutes)	15
Thin Film Dry Time @ 12°C (Hours)	5
Thin Film Dry Time @ 40°C (Hours)	2
Mixed Density @ 20°C (kg/L)	1.6
Max Recoat/Topcoat Time (Hours) @ 12°C @ 40°C	60 24
Application Maximum Relative Humidity (%)	75
Compressive Strength - ASTM C579 (N/mm <sup>2</sup> )	68
Flexural Strength @ 7 days - ASTM D790 (N/mm <sup>2</sup> )	45
Tensile Strength - ASTM D638 (N/mm <sup>2</sup> )	32
Bond Strength to Concrete - ASTM D4541 (N/mm <sup>2</sup> )	> 2
Taber Abrasion - ASTM D4060 CS17 Wheels (mg loss/1000 cycles)	40
Water Absorption - ASTM C413 (maximum)	0.004
Porosity with No Sealer NACE Sand (TM-01-74)	0
Hardness Shore D	75
Application Temperature (°C)	12 - 40

## Design Criteria

Vetotop EC493 is designed to be applied as a hard-wearing single coat on cementitious & metal substrates. When used on metal substrates, it is recommended that the application takes place within 2 to 3 hours from substrate preparation to prevent early rust formation. The applied product is resistant to water as well as a wide range of chemicals

## Chemical Resistance

Chemical	Concentration	Resistance
Lactic Acid	10%	Excellent
Citric Acid	10%	Excellent
Hydrochloric Acid	18%	Excellent
Sodium Hydroxide	50%	Excellent
Acetic Acid	10%	Excellent
Butanol	-	Excellent
Crude Oil	-	Excellent
Nitric Acid	20%	Excellent
Sulphuric Acid	50%	Excellent
Mineral Oil	10%	Excellent
Ammonia	-	Excellent
Sea Water	-	Excellent
Jet Fuel	-	Excellent

Vetotop EC493 is resistant to acids and alkali of medium concentrations, mineral oil products and solvents

## Usage Instructions

### Surface Preparation

The surface should be sound, clean, free from loose material, grease, laitance, dirt-curing compounds, etc. Remove laitance and weak surface layers mechanically (grinding or blasting) to provide a sound, well-profiled surface.

Before applying the product, make all the necessary repairs using an epoxy mortar from the Vetorep ER range. New concrete floors should be at least 28 days old with a moisture content of less than 5% (Test the substrate's moisture condition if you need to apply it earlier than 28 days).

Grit blast steel substrates to surface quality SA2<sup>1/2</sup> (BS 4232:Second Quality); Apply within 2 to 4 hours after blasting.

### Mixing

Thoroughly stir the individual components of Vetotop EC493 before mixing them together. Pour the entire contents of the hardener container into the base container and mix the materials thoroughly for at least 3 minutes. We recommend using a heavy-duty, slow speed, flame-proof, or air-driven drill fitted with a mixing paddle.

### Application

Apply the Vetotop EC493 mixture to the prepared surface using a brush or a roll made from lambswool. Ensure that the area is completely coated and that the 'ponding' of the material does not occur.

### Curing

The applied coating can receive foot traffic in 24 hours. However, allowing it to cure for 7 days can achieve the full chemical resistance properties of the material and make it ready to receive vehicular traffic.

### Cleaning

Remove Vetotop EC493 from tools and equipment with Vetonit Solvent XX400 immediately after use. Hardened material can only be removed mechanically.

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### Packaging & Coverage

Product	Pack Size	Consumption
Vetotop EC493	4 & 15 Liters Kit	7 m <sup>2</sup> /liter @ 100 micron DFT

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 EC493 has a shelf life of 12 months, provided it is stored clear of ground in a dry and shaded place at a temperature below 35°C.

### Health & Safety

Vetotop EC493 and Vetonit Solvent XX400 should not come into contact with skin and eyes. They also should not be swallowed. Ensure adequate ventilation and avoid inhalation of vapors. Some people are sensitive to resins, hardeners, and solvents.

Wear suitable protective clothing, gloves, and eye protection. If working in confined areas, use suitable respiratory protective equipment. The use of barrier creams provides additional skin protection. In case of skin contact, rinse with plenty of clean water, then cleanse with soap and water. Do not use solvent.

In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed, seek medical attention immediately - Do not induce vomiting.

Vetotop EC493 and Vetonit Solvent XX400 are both flammable. Keep away from sources of ignition. Do not smoke around them. In the event of a fire, extinguish with CO2 or foam.

### 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.

### **Legal Disclaimer**

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