

FLOORING



Vetotop EC495

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 EC495 is a two-component, high-performance, solvent-based, epoxy coating system that adheres perfectly to various substrates like concrete, metal, wood, stone, etc.

Once cured, the product has excellent abrasion and chemical resistance. Vetotop EC495 provides an attractive, hard-wearing, and easily cleanable floor finish. When used on floors and walls, vetotop EC495 enhances the environment's lighting due to its reflective properties.

Advantages

- Self-priming.
- Easily applied.
- High abrasion and chemical resistance.
- Low maintenance costs.
- Hygienic, impervious, and easily cleanable.
- It provides 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 EC495	Typical Values
Solid Content (by Volume)	81%
Recommended DFT / coat / micron	100 - 150
Pot Life @ 12°C/54°F (Hours)	3
Pot Life @ 40°C/104°F (Hours)	1
Thin Film Dry Time (Hours)	
@ 12°C	5
@ 40°C	3
Mixed Density @ 20°C (kg/L)	1.5
Max Recoat/Topcoat Time (Hours)	
@ 12°C	60
@ 40°C	24
Application Maximum Relative Humidity (%)	75
Compressive Strength - ASTM C579 (N/mm ²)	70
Flexural Strength - ASTM D790 (N/mm ²)	47
Tensile Strength - ASTM D638 (N/mm ²)	34
Bond Strength to Concrete - ASTM D4541 (N/mm ²)	> 2
Taber Abrasion - ASTM D4060 CS17 Wheels (mg loss/1000 cycles)	35
Water Absorption - ASTM C413) (maximum)	0.004
Porosity with No Sealer NACE Sand (TM-01-74)	0
Hardness Shore D	80
Application Temperature (°C)	12 - 40

Design Criteria

Vetotop EC495 is designed to be a hard-wearing two-coat application on cementitious or 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 will be 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 EC495 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.

Laitance and weak surface layers must be removed using mechanical methods such as grinding or blasting to provide a sound, well-profiled surface. All necessary repairs should be made before applying Vetotop EC495 by using 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 for moisture conditions if you wish to apply earlier). Grit blast steel substrates to surface quality SA2¹/₂ (BS 4232:Second Quality). Application should take place within 2 to 4 hours after blasting.

Mixing

Stir the components of Vetotop EC495 individually before mixing them together. Pour the entire content of the hardener container into the base container, mix the materials thoroughly for at least 3 minutes. We recommend using a heavy-duty, slow speed, flameproof or air-driven drill fitted with a mixing paddle.

Application

Apply the mixed Vetotop EC495 kit to the prepared surface using a brush or a roller 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, it should be allowed 7 days to achieve full cure in order to receive vehicular traffic (chemical resistance properties are reached then).

Cleaning

Remove Vetotop EC495 from tools and equipment with Vetonit Solvent XX400 immediately after use. Remove hardened material mechanically.

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Packaging & Coverage

Product	Pack Size	Coverage
Vetotop EC495	4 Liters Kit	5.5 m ² /liter @ 150 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 EC495 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 EC495 and Vetonit Solvent XX400 should not come into contact with skin and eyes and they 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. Barrier creams provide 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 EC495 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.

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