

## PROTECTIVE COATING



# Vetotop EC198

Water Based chemical & abrasion resistant antibacterial wall & floor thin epoxy coating

### Uses

- Low vehicular traffic.
- Schools and office buildings, restaurants, and food factories.
- Hospital & clinic procedure rooms and pharmaceutical plants.

### Product Description

Vetotop EC198 is a hygienic waterborne coating based on formulated epoxy resin and curing agents specially selected for their ability to be applied and cured in a wide range of temperatures. The product is composed of 2 components; a base and a hardener, providing a lump-free smooth semi-gloss finish.

### Advantages

- Near-Zero odor and VOC.
- Self-priming application on concrete substrates.
- It does not support the growth of mold, fungi, or algae.
- Ease of application.
- Excellent abrasion and chemical resistance.
- Low maintenance costs.
- Hygienic, impervious, and easily cleanable.
- Used for both floors and walls.
- Available in 8 standard colors with the possibility of custom RAL colors.
- High bond, stronger than concrete cohesive strength.
- Economic installation.

### Standards Compliance

- BS EN476:2009 as class 1 in flame spread.
- ASTM C722.

### Technical Data

Vetotop EC198	Typical Values @ 25 °C
Solid Content (weight%)	67
Recommended DFT / coat	150 -200 µm
Pot Life (Minutes)	30
Thin Film Dry Time (Hours)	5
Mixed Density (kg/ltr)	1.3
Max Recoat/Topcoat Time (Hours)	24
Application Maximum Relative Humidity (%)	75
Bond Strength to Concrete ASTM D4541 (N/mm <sup>2</sup> )	> 2
Taber Abrasion ASTM D4060 CS17 Wheels (mg loss/1000cycles)	< 70
Water Permeability	Nil
Porosity with no sealer NACE Sand TM-01-74	0
Pencil Hardness	6H
Application Temperature (°C)	10 to 45
Volatile Organic Content (VOC) (gm/ltr)	< 5
Bacterial Resistance ASTM G22-76	No Growth (Pass)
Fungal Resistance ASTM G21-13	Rating 0 (Pass)

## Design Criteria

Vetotop EC198 is designed to be a hard-wearing single or dual 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
Hydrochloric acid	10%	Excellent
Acetic acid	10%	Excellent
Sodium hydroxide	10%	Excellent
Acetone: H2O (1:1)	-	Excellent
Isopropanol: H2O (1:1)	-	Excellent
Coffee	-	Slight stain
Detergent	-	Excellent
Red Wine	-	Excellent

## Usage Instructions

### Surface Preparation

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

Laitance and weak surface layer shall be removed using mechanical methods such as grinding or blasting to provide a sound, well-profiled surface. Repair all necessary repairs before application by using epoxy mortar from the Vetorep ER range.

New concrete floors shall be at least 28 days old with a moisture content of less than 5% (shall earlier application be required testing of substrate for moisture conditions shall be made).

Steel substrates should be grit blasted to surface quality SA2½ (BS 4232:Second Quality), then apply Vetoprime EP390, wait till it dries, then continue the application of Vetotop EC198.

### Priming

Generally, no primer is required to use Vetotop EC198 on cementitious substrates; however, where highly absorbent cementitious surfaces exist, Vetoprime AP443 can be used.

For metal substrate, it is mandatory to use primer recommended Vetoprime EP390 before application.

### Mixing

Thoroughly stir the individual components of Vetotop EC198 before mixing. Pout the entire content of the hardener container into the base container and thoroughly mix the material for at least 3 minutes. The use of a heavy-duty slow speed drill fitted with a mixing paddle is desirable.

### Application

Apply the mixed Vetotop EC198 to the prepared surface using a brush or lambs-wool roller. 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 is recommended to cure for 7 days to achieve a full cure to receive vehicular traffic and chemical resistance properties.

### Cleaning

Remove Vetotop EC198 from tools and equipment with water immediately after use. Remove hardened material mechanically.

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### Packaging & Coverage

Product	Pack Size	Coverage
Vetotop EC198	4 & 16 Liters Kit	3.5 m <sup>2</sup> /liter/coat @200 microns thickness

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

### Shelf Life & Storage

The original sealed kit of Vetotop EC198 has a shelf life of 12 months, provided it is stored clear of ground in a dry and shaded place below 35°C.

### Health & Safety

Vetotop EC198 should not come into contact with skin and eyes or 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 cream 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 contact with the eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed, seek medical attention immediately - Do not induce vomiting.

Vetotop EC198 is flammable. No Smoking. In the event of a fire, extinguish with CO<sub>2</sub> or foam.

### Additional Information

Saveto manufactures a wide range of construction chemicals and speciality 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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