

PROTECTIVE COATING



Vetotop EPU497

Two-component, hybrid, flexible protective epoxy polyurethane coating

Uses

- Foundation waterproofing.
- Manhole and pipe linings.
- Reservoirs, water treatment plants.
- Lining for sewage and effluent plants.
- Wall and floor coating for concrete protection.
- Sea water tanks, channels, and intakes.
- Secondary containment protection.
- Indoor & outdoor parking areas.

Product Description

Vetotop EPU497 is a 100% reactive solvent free two-component hybrid combination of epoxy polyurethane resins. Vetotop EPU497 has an excellent chemical and abrasion resistance.

Advantages

- Flexible coating.
- UV resistance.
- Excellent chemical and abrasion resistance.
- Long-term corrosion protection.
- Excellent resistance to underground environments.
- Resistance to bacterial growth.
- Easy to apply with a brush, roller, and spray application.
- Cost-saving - primerless system.

Standards

- ASTM D1308

Chemical Resistance

Acids (m/v)	
Hydrochloric acid 10%	Resistant
Sulphuric acid 25%	Resistant
Nitric acid 10%	Resistant
Phosphoric acid 15%	Resistant
Aqueous solutions	
Tap water	Resistant
Sea water	Resistant
Ground water	Resistant
Sewage	Resistant

Note: *The above data is for 7 days cured product at 23 °C. Vetotop EPU497 is resistant to acids and alkali of medium concentrations, mineral oil products and solvents.

Technical Data

Vetotop EPU497	Typical Values @ 25°C, 50% RH
Finish	semi-gloss
Tack Free Time (Hours)	6
Mix Density (kg/liter)	1.25
Pot life (Minutes)	60
Solid Content (by weight%)	97
Water absorption (%) ASTM C570	0.2
Adhesion Strength (N/mm ²) ASTM D4541	1.5 - 2.5
Elongation (%) ASTM D412	25
Tensile Strength (N/mm ²) ASTM D412	10
Application Temperature (°C)	5 to 40
Full Cure Time (days)	7
Service Temperature (°C)	-20 to 70
Over Coating Time (Hours)	8

Usage Instructions

Surface Preparation

All surfaces intended for application with Vetotop EPU497 must be clean and possess an open capillary system. Remove laitance, dirt, grease, and other loose materials using high-pressure water jetting or wet sandblasting. Defective concrete, such as cracks and honeycombs, must be identified and repaired before application. Steel surfaces must be free of excessive rust scale, pollution fallout, dirt, grease, surface chemicals, or any other foreign contaminants prior to blast cleaning.

Priming

Priming is not required for good-quality non-porous concrete. If the concrete surface is porous or if there is doubt about the concrete surface quality, use Vetoprime EP491 or Vetoprime EP490. All metal surfaces should be coated immediately with primer after preparation.

Vetoprime EP491 or Vetoprime EP490 should be mixed in the proportions supplied. Add the entire contents of the hardener container to the base container. When thoroughly mixed, preferably using a slow-speed mixer, apply the primer in a thin, continuous film using rollers or stiff brushes. Work the primer well into the concrete surface, taking care to avoid ponding or over-application. Leave the primer to achieve a tack-free condition before applying the topcoat.

Mixing Vetotop EPU497

In a separate mixing vessel, use a slow-speed mixer to mix the base and hardener for 3 minutes. Ensure all components are mixed in the quantities supplied and that all containers are scraped clean. Do not add solvent thinners at any time.

Application

Apply Vetotop EPU497 by brush, roller, or airless spray to the surface. A minimum of two coats is generally recommended to ensure a complete and uninterrupted coating. For brush/roller application, the mixed material should be promptly applied to achieve a continuous coating. The first coat should be applied to achieve a uniform coating with a wet film thickness of at least 200 microns and allowed to dry for a minimum of 4 hours at 35°C before applying the second coat. The second coat should be applied after a minimum of 4 hours at 35°C from the application of the first coat, following the same guidelines to achieve a wet film thickness of not less than 200 microns. In cases where large areas need to be coated, spray application is advisable.

Cleaning

Clean all tools employed to apply Vetotop EPU497 with Vetonit Solvent XX400 before it hardens; otherwise, mechanical means are needed.

Limitations

Vetotop EPU497 is formulated for application to clean sound substrates of steel or concrete; and where it can be protected from contact with water for the first 24 hours after application as discoloration could occur.

Legal Disclaimer

Saveto endeavors to ensure that any advice, recommendations, information it may give is accurate and correct. It cannot accept any liability either directly or indirectly arising from the use of its products because it has no direct or continuous control over where or how its products are applied, whether or not following any advice, specification, recommendation, or information given by us. Saveto has the right to change any of the technical datasheets specifications upon its discretion without prior notification.

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.

For cold weather working (down to 5°C), it is recommended that materials are stored in a heated building and only removed immediately before use. Accelerated heating methods are not to be utilized under any circumstances.

Packaging & Coverage

Product	Pack Size
Vetotop EPU497	10 liters kit
Vetoprime EP491	4 & 15 liters kit
Vetoprime EP490	4 & 15 liters kit

Product	Coverage
Vetotop EPU497	2.5 m ² / liter @ 400 microns thickness.
Vetoprime EP491	11 m ² / liter @ 50 microns thickness.
Vetoprime EP490	10 m ² / liter @ 100 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 EPU497 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 EPU497, Vetoprime EP491, Vetoprime EP490, and Vetonit Solvent XX400 should not come into contact with skin, eyes, or be swallowed. Ensure adequate ventilation and avoid inhaling vapors. Some people are sensitive to resins, hardeners, and solvents. Wear suitable protective clothing, gloves, and eye protection. When working in confined areas, use appropriate 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. If contact occurs with the eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed, seek medical attention immediately – Do not induce vomiting.

Vetoprime EP490 and Vetonit Solvent XX400 are flammable. Keep away from sources of ignition. No smoking. In the event of a fire, extinguish with CO₂ or foam

Refer to product MSDS for further information.