



Vetoprime EP491

Epoxy-based primer (Versatile and solvent-free)

Uses

- As a universal versatile primer for resinous flooring and concrete repair systems (especially screeds and self smoothing toppings).
- As a stand-alone sealer and surface hardener.
- As a dust proofer for cementitious surfaces.
- To seal highly porous cementitious substrates.

Product Description

Vetoprime EP491 is a two-component, solvent-free, epoxy resin with excellent sealing properties. It can also be a universal primer for the Vetorep and Vetotop systems. When applied on prepared concrete and cementitious substrates, it seals them and enhances their bonding with topcoats. Vetoprime EP491 can be used internally as a stand-alone seal coat to harden cementitious surfaces and prevent dusting.

Advantages

- Easily applied by brush, roller or spray.
- Versatile with applications in a large number of coating materials and sealants.
- Designed for highly porous surfaces.
- High wetting properties.
- Perfect for use with epoxy, urethane screeds and self smoothing toppings.
- Cost effective.
- Suitable for the weather conditions of the MENA region.

General Applications

- Priming of joint edges to receive urethane, epoxy, and polyurea-based sealants.
- Priming of concrete slabs and walls to receive solvent-free epoxy, urethane, MMA, polyurea, hybrid coatings, screeds, and self smoothing toppings.
- Priming of concrete substrates to receive epoxy and urethane-based repair mortars.
- Priming of cementitious screeds to receive epoxy, urethane, and resinous toppings.

Technical Data

Vetoprime EP491	Typical Values @ 25°C
Application Temperature (°C)	10 to 40
Pot Life (Minutes)	30 - 50
Tack Free Time (Hours)	1 - 2
Appearance	Transparent Yellowish Liquid
Application Thickness (microns)	50 - 100
Solids Content (weight%)	100
Mix Density (kg/liter)	~ 1.05
Adhesion Bond to Concrete	Higher than host concrete cohesive strength

Note: At temperatures below 20°C, the cure rate will be slower. Conversely, at temperatures above 20°C, the cure rate will be faster.

Standards Compliance

- EN 1504-2

Usage Instructions

Surface Preparation

Vetoprime EP491 must be applied to a sound, clean and dry surface to achieve maximum bond strength between substrate and coating/repair products.

Preparing Concrete Substrates

Concrete substrates should be at least 28 days old, and at a 75% or below relative to humidity of the concrete. Laitance deposits on new concrete are best removed by light grit blasting, mechanical scrubbing, or grinding. Where heavy contamination by oil and grease has occurred or existing coatings are present, remove all contaminants entirely.

Priming

Mix Vetoprime EP491 as supplied. Add the entire content of the hardener container to the base container and mix thoroughly for about 2 minutes. Once mixed, apply Vetoprime EP491 immediately in a thin continuous film using a stiff brush or a roller.

Avoid over-application and puddles. Allow Vetoprime EP491 to become tack-free before applying the epoxy coating (unless otherwise specified), but keep well within the open time specified for the given temperature. As a general rule, the hotter the substrate, the quicker the primer will become dry.

Cleaning

Clean all tools and equipment with Vetonit Solvent XX400 immediately after use.

Legal Disclaimer

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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.

Packaging & Coverage

Product	Kit Size	Consumption
Vetoprime EP491	4 Liters	10 m ² /ltr. @100 microns thickness
	15 Liters	6.6 m ² /ltr. @ 150 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 container of Vetoprime EP491 has a shelf life of 12 months, provided it is stored clear off the ground, in a dry and shaded place at a temperature below 35°C.

Health & Safety

Some people are sensitive to epoxy resins, so gloves and a barrier cream should be used when handling products that contain them. If contact with the resin occurs, it must be removed before it hardens with a resin removing cream followed by a thorough washing with soap and water. Do not use solvents.

During use, avoid inhalation of solvents' vapor and don't let it come in contact with your skin and eyes. Wear suitable protective clothing, gloves, eye protection, and respiratory protective equipment.

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

Vetoprime EP491 is non-flammable. Ensure adequate ventilation. Do not smoke or use near naked flames or ignition.

Refer to the Material Safety Data Sheet for more information.

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.