



Vetoprime EP381

Two-components, conductible epoxy primer

Uses

- As an intermediate layer of the epoxy system Vetotop EL383, to assure uniform conductivity on the whole floor surface.

Product Description

Vetoprime EP381 is a two-component, colored epoxy system with solvents that offer a strong bonding to the substrate and a good conductivity that prevents static electricity accumulation on surfaces. It has a conductivity resistance lower than 10000 Ohm. Vetoprime EP381 is classified as SR-B1,5, according to EN13813.

Advantages

- Easy to apply by brush or roller.
- Low Viscosity.
- Conductive properties.
- Top-coated with an anti-static floor coating system.

Technical Data

Vetoprime EP381	Typical Values @ 20°C
Basis	2-component epoxy resin
Color	Black
Viscosity	2.000 mPa s @ 23°C
Density (Combined 2 components A+B)	1.23 kg/lit
Mixing proportion (A:B)	100:18.2 by weight
Pot life	Approx. 8 hours @+20°C
Minimum hardening temperature	+8°C
Walkability	After 24 hours @ 23°C
Successive Layer	After 8-24 hours @ 23°C
Final strength	After 7 days @ 23°C
Adhesive strength	> 3 N/mm ² (breaking point of concrete)
Conductivity resistance	<10 ⁴ Ohm

Usage Instructions

Surface Preparation

It is essential to apply Vetoprime EP381 to primed substrates. The substrate should be a sound, clean, and dry surface to achieve maximum bond strength between substrate and coating/repair products.

Concrete substrates should be at least 28 days old, and the concrete's relative humidity is 85% or below.

Laitance deposits on new concrete are best removed by light grit blasting, mechanical scabbling, or grinding.

Where heavy contamination by oil and grease has occurred or existing coatings are present, it is essential to remove all contaminations.

Mixing

Mix Vetoprime EP381 as supplied. Add the entire component A to the container of component B. Mix the two components for about 5 minutes. Mix thoroughly with a low revolution mixer and a blade at very low speed (300rpm). Scrape the sides and the bottom of the container several times to achieve a uniform dispersion of the hardener. Keep the mixer blades submerged in the coating to avoid introducing air bubbles.

After proper mixing to a homogeneous consistency, pour the mixed parts A and B into a fresh container and mix for another minute.

Application

Install a grid formation - at most 5m x 5m mesh - of notable self-adhesive copper bands (conductors) on the floor. Connect it to the ground through a perimetrical cable.

Once mixed, immediately apply Vetoprime EP381 in a continuous thin film using a brush or roller. Avoid over-application and puddles. Allow Vetoprime EP381 to become tack-free before applying conductive coating (unless otherwise specified), but well within the open time specified for the given temperature.

The hotter the substrate, the more quickly the primer will become dry.

Apply Vetotop EL383 within the following 24 hours.

Curing

The curing time of the material is influenced by the ambient, material, and substrate temperatures.

Chemical reactions are slowed down at low temperatures; this lengthens the pot life, open time, and curing times. High temperatures speed up the chemical reactions; thus, the time frames mentioned above are shortened accordingly. Vetoprime EP381 shows no clear end of pot-life symptoms. Therefore, please ensure that the mixed material is used up within 1 hour (at 20°C).

To fully cure, the material, substrate, and application temperature should not fall below the minimum.

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After application, the material should be protected from direct contact with moisture and water for approximately 24 hours (at 20°C). Within this period, contact with water can cause a surface bloom and/or surface tackiness, both of which must be removed by grinding or milling and laid again. Carbamate has a marked effect on the conductivity of the coating and has to be removed.

In case of a longer time than predicted interferes between the application of successive layers, or if old floors are going to be laid again, the surface should be thoroughly cleaned and ground before applying the new layer.

Cleaning

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

Packaging & Coverage

Product	Pack Size	Coverage
Vetoprime EP381	6.5 Liters kit	6m ² / liter

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 Vetoprime EP381 sealed container has a shelf life of 12 months from the production date, provided it is stored clear of ground in a dry, shaded place. The Recommended storage temperature is between +5°C and +35°C.

Health & Safety

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

During use, avoid contact with skin and eyes. Wear suitable protective clothing, gloves, eye protection, and respiratory protective equipment. In case of contact with the eye, rinse immediately with plenty of clean water, and seek medical advice. If swallowed, seek medical attention immediately – do not induce vomiting.

Vetoprime EP381 is non-flammable.