



CONSTRUCTION CHEMICALS TECHNOLOGIES

---

## VIMEPOX TOP COAT

Two component colored epoxy coating

### Properties

---

**VIMEPOX TOP-COAT** is a colored two-component epoxy system without solvents.

**VIMEPOX TOP-COAT** offers:

- High mechanical strengths: hardness combined with relative elasticity and abrasion resistance
- waterproofing and chemical resistance to acids , alkalis , several solvents , fuels , oils , salt water, detergents
- Duration to weathering

### Applications

---

**VIMEPOX TOP-COAT** is applied as a protective and decorative coating on cementitious substrates such as concrete, cement mortar, plaster, asbestos cement and steel surfaces , both horizontal and vertical.

**VIMEPOX TOP-COAT** is intended for sealing coating (paint) and brushable coating <1 mm (multiple paint) in accordance with DIN 28052-1 and therefore for medium mechanical stresses ( category 2) up to  $1\text{N/mm}^2 = 100\text{ t/m}^2$  ( static loads and vehicles with pneumatic tires) .

Besides great chemical resistance **VIMEPOX TOP-COAT** shows no toxicity or immigration problems of harmful substances in food. It is suitable for application to floors, walls and general areas of food production and packaging.

**VIMEPOX TOP-COAT** therefore appropriate for floor and wall coatings in storage and production areas, chemical plants, garages, fuel stations and for anticorrosion protection of steel structures .

---

## How to use

---

### 1. Substrate

Substrate must be sound, dry, free from dust, rust, grease and dirt which generally prevent the adhesion of epoxy coating.

Therefore required preparation by sandblasting, water blasting, milling or blasting and then grinding - polishing by using a mosaic machine.

Substrate preparation is completed by removing the dust by using an industrial type vacuum cleaner of high absorbency.

Cementitious substrates must meet the following basic criteria:

- Strength surface affinity  $\geq 1,5 \text{ N/mm}^2$
- Humidity  $\leq 4\%$

Prerequisite for the above requirements are:

- Concrete strength class: at least C 20/25
- Cement quality: cement content  $\geq 350 \text{ kg/m}^3$
- Age of concrete and cementmortar > 28 days
- Epoxy coating must be protected from moisture and mainly water vapor, which will affect the back side, and so will cause the detachment. Vapor barrier is necessary in the event of such a case.

### 2. Priming

Porous cementitious substrates must be primed after their preparation and before the application of **VIMEPOX TOP-COAT** with transparent epoxy primer solvent **VIMEPOX PRIMER-S** or solvent free **VIMEPOX PRIMER ECO**.

The primer is intended to seal surface pores and create a uniform, closed surface. Alongside blends unwanted dust residues.

In addition, impregnation of the substrate:

- Improves surface strengths.
- Seals capillaries and addresses the problem in the case of small overruns of the allowable moisture.

In these cases and to achieve the desired result in the greatest possible depth, it can be used for the impregnation special low-viscosity material **VIMEPOX BETON-IMP** or **VIMEPOX PRIMER-S** diluted up to 15 % with **VIMEPOX SOLVENT**.



### 3. Mixture

Components A (resin) and B (hardener) are packed in different containers and in the required ratio. Therefore does not require weighing before mixing , except where necessary quantity is smaller than that of the packaging.

Before mixing the two components mixing - homogenization of the colored component A is recommended. Mixing of the two components must be done in a clean third mixing vessel, in which the entire content of packages A and B are emptied and a low speed (up to 300 rev / min) mixer is being used. Stirring should result in full homogenization of the mixture (about 5 minutes).

### 4. Application

**VIMEPOX TOP-COAT** can be applied with a special roll (with short hair), spray gun or airless spray.

### General remarks

-Ambient temperature during application of **VIMEPOX TOP-COAT** should be at least 10-12<sup>0</sup> C (so that the substrate temperature is  $\geq 8^0$  C) to allow hardening.

-Relative humidity must not exceed 70 %. Otherwise it may cause incomplete surface reaction of the coating.

This can result in:

-Loss of glossy appearance (matting) in the worst case :

-Creation of an uncured surface film which must be removed by sanding and water (e.g. scrubber and felt) . The remaining matte coating has no longer strength problems.

-Negative result on the adhesion of subsequent layers has the effect of moisture or contaminants in fresh underlying coating.

-The direct effect of water on the fresh surface of the epoxy coating, up to 6 hours after coating can cause effects as the increased ambient air humidity: discoloration and / or sticky surface. Altered surface must be sanded and coated again.

-If between successive layers implementing **VIMEPOX TOP-COAT** inserted waiting time is greater than allowed or it is about refinishing of old coatings or already coated with **VIMEPOX TOP-COAT**, surface should be sanded with mosaic machine to remove the surface gloss. Then the new coating follows.



---

## Examples of application - Consumption

---

### 1. Smooth sealing coating (paint) of concrete floor

1. Substrate preparation (see above) .
- 2 . Prime the substrate by using **VIMEPOX PRIMER-S** or **VIMEPOX PRIMER ECO**.  
Consumption : 200-300 g/m<sup>2</sup> depending on the porosity of the substrate .
- 3 . Apply **VIMEPOX TOP-COAT** by using a roll in 2 coatings .  
Consumption : 250-300 g/m<sup>2</sup> per coating.

Each coating after the primer is being applied after the previous has already dried .  
Waiting time is (at 20<sup>0</sup> C) in 16-20 hours , but should not exceed 24 hours. Total thickness of the coating for primer and 2 coatings (x300 g/m<sup>2</sup>) exceeding 400 microns.

If there are irregularities on the surface , after priming powdering by using quartz sand M 32 (0,1-0,3 mm) onto the fresh primer and caulking imperfections with epoxy mortar **VIMEPOX MORTAR**. The surface should then be smoothed again by using a mosaic machine and then apply **VIMEPOX TOP-COAT**.

### 2. Non slippery coating of concrete floors

After the first coating of **VIMEPOX TOP-COAT** powdering is performed by using quartz sand M 31 (0,1-0,7 mm) on the fresh coating. After curing of the epoxy material, the sand that is not being adhered is cleaned .  
Then a sealing coating of **VIMEPOX TOP-COAT** follows.  
Consumption : 400-500 g/m<sup>2</sup>.

---

## Hygiene Measures - Precautions

---

Epoxy resin **VIMEPOX TOP-COAT** is an irritating material while the epoxy hardeners are corrosive materials, so the people who apply must take protective measures : wear rubber gloves and goggles .

If the skin comes into contact with the resin, the hardener or the mixture thereof should be wiped with a paper towel and then rinsed off with soap and water (recommended adding 2 % vinegar) .

If material gets into eyes, should be rinsed thoroughly but within 10-15 minutes and then you should visit an ophthalmologist.

**VIMEPOX TOP-COAT** and primers **VIMEPOX PRIMER-S** or **VIMEPOX PRIMER-ECO** are after curing completely harmless to health.

---