



CONSTRUCTION CHEMICALS TECHNOLOGIES

VIMEPOX BETON-IMP

Transparent two-component epoxy impregnation agent

Properties

VIMEPOX BETON-IMP is a transparent two-component solvent based epoxy system, with very low-viscosity, which penetrates deep into the substrate, filling all pores.

After the hardening of **VIMEPOX BETON-IMP**, the impregnation of substrate up to the surface will bring about:

- Increase of mechanical strengths, and therefore stabilization and resistance to abrasion
- Sealed, non-absorbent and waterproof surface, avoiding substrate damages due to frost
- Resistance to chemical distresses of alkalis and low condensation mineral oils acids, fuels, solvents, cleaning and disinfection agents.

Applications

VIMEPOX BETON-IMP is used for impregnating concrete or cement mortar floors. It is the simplest and most economical application for epoxy industrial flooring.

It is the best solution to the problem of abraded floors that create dust in production rooms, warehouses, garages, parking stations and gas stations.

The impregnation method does not create a real coat on the substrate (thickness < 50 µm) and therefore cannot cause detachment problems. In accordance with DIN 28052-1, this processing is suitable, without needing any tests, for any kind of mechanical loading of the floor with the exception of hydrostatic pressure.

The impregnation method is actually the first coat (primer) for any further epoxy coating. Apply one or two coats.



Technical Data

Composition:	Two-component epoxy system
Component A:	Transparent solvent based epoxy resin
Component B:	Transparent solvent based hardener
Mixing ratio:	A:B = 3.44:1 by weight
Specific gravity of mixture	(A+B): 0.92 kg/l
Mixture viscosity:	45 mPa·s at 23° C
Pot life:	about 10 hours at 20° C
Minimum hardening temperature:	+8° C
Foot Traffic:	after 24 hours at 20° C
Can be coated:	after 10-24 hours (priming)
Final strengths:	after 7 days at 20° C

How to use

1. Substrate

The cementitious substrate must be free of any loose particles, dust, oils or grease. As impregnation does not require coat bonding, usually a mechanical preparation of the substrate is not required. However, in old, worn-out floors, smoothing is necessary for levelling the surface.

Unlike epoxy coatings, **VIMEPOX BETON-IMP** can be applied to a relatively fresh concrete (after at least 3 days) as it does not affect cement hydration. In addition impregnation is possible on slightly wet substrates (moisture up to 6%). However, in the above cases the impregnation of the material is less deep. In order to ensure an impregnation depth of at least 5 mm, the substrate moisture must not exceed 3%.

2. Mixing

Components A (resin) and B (hardener) are packaged in different vessels and in the required ratio. This means that weighing is not necessary before mixing, unless less quantity is needed than the one contained in the packs.

The two components should be mixed in a different and clean mixing vessel, where the content of packs A and B will be emptied.

Use a low-speed mixer (up to 300 rpm). Stirring must give a fully homogenized mixture (around 5 minutes).

3. Application

VIMEPOX BETON-IMP is applied with a brush, roller or spray, usually in 1 or 2 coats, depending on substrate absorbability. Moisture between the layers of the material has a negative impact on bonding.

If it rains after the first 2-3 hours of impregnation, a white film will be created on the surface without, however, affecting the quality of impregnation.

Application examples – Consumption

1. Impregnation

For impregnating a C20/25 concrete surface you only need one coat, using 100-150 g of **VIMEPOX BETON-IMP** per m². Usually you will need two coatings (200-300 g/m²), but if the substrate is very absorbent, you might need a third coating (300-400 g/m²).

Each successive coating must be applied around 15 minutes after the previous one (application of liquid to a liquid). In this way you will achieve the maximum penetration depth of **VIMEPOX BETON-IMP**.

Surface anti-slippery quality is not affected by impregnation, because the epoxy coating is very thin (<50 µm).

2. Sealing coating

You will achieve a sealing coat by applying one more coat of 200 g/m² **VIMEPOX BETON-IMP**, 6 to 24 hours after completion of impregnation as described above.

In this way you will create a uniform, sealed, clear coat, 0.1-0.3 mm thick. The concrete surface will acquire increased resistance to corrosive action.

General Remarks

Usually a floor impregnated with **VIMEPOX BETON-IMP** does not have a uniform appearance. This is because concrete absorbability is not uniform. As a result, the surface will be partly dark and partly light-coloured. If for aesthetic reasons this is not acceptable, apply a sealing coat with coloured **VIMEPOX F-COAT** or **VIMEPOX SP-COAT** after impregnation.



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Health measures – Precautions

VIMEPOX BETON-IMP contains solvents. Make sure that the room is well aired when using it.

The hardeners used in epoxy systems are corrosive materials and therefore the persons using them must take protective measures: **wear plastic gloves and protective goggles.**

If contact of the resin, the hardener or their mixture with the skin occurs, wipe the material away using a napkin and then wash with soap and water (you may add 2% vinegar). In case of contact with the eyes, wash with plenty of water within the first 10-15 minutes and then visit an ophthalmologist. **VIMEPOX BETON-IMP** is absolutely harmless for your health after hardening.

Cleaning

Clean the tools using **VIMEPOX SOLVENT** immediately after use.

Storing

Store the material in closed vessels and shady places at a temperature no higher than 25° C.