

ETERNAL®lak na beton

Serial number 1902

High-loadable one-component varnish for coatings of mineral interior and exterior surfaces

Features:

ETERNAL lak na beton is a low viscosity varnish based on modified α -silane polyetheric binder and special additives. It is specified by deep penetration into concrete and other mineral surfaces, excellent chemical resistance, thermal resistance (for example welding, grinding), scratch resistance and fast drying (can be walked on after 24 hours). After 24 hours from application of second layer the coating can be polished. **ETERNAL lak na beton** creates, by netting with air humidity, hydrophobic shiny, hard film with anti-slip features, which is easily cleaned and maintained.

Usage:

ETERNAL lak na beton is made for impregnating and thin-layered coatings of mineral surfaces, like for example shiny or matt concrete floors in cellars, garages, workshops, shops, storages or exhibition spaces. Also, for marble surfaces, concrete and stone tiles, tiles from nature stone and so on. Even though it is mainly made for mineral surfaces, it can be applied also on epoxy coatings (other types of coatings must be removed). It is one component solvent-free agent, which is transparent even in liquid form, is odorless, is easily cleaned and repaired. **ETERNAL lak na beton** must not come into contact with food and drinking water.

Technical data:

Dry matter		min. 82 weight%
Volume of active silane agent		min. 99 %
pH		9,5–11,5
Specific weight		approx.1,10–1,15 g/cm ³
Consistency (F4, 23 °C)		35,0 –60,0 s
Adhesion (grid)		0 (perfect)
Adhesion (breaking away from concrete)		min. 3,0 MPa
Drying	stage 1	to 3 hours (23 °C)
	stage 5	to 12hours (23 °C)
Hardness (Persoz):	1 day	min. 20 %
	10 days	min. 45 %
Volume of Volatile organic matter:		
Category/subcategory of product		A/i
Max. volume ofVOC in the product		36 g/l
		0,0274kg/kg
TOC		0,0159 kg/kg

Consumption:

0,08–0,16kg/m² (in two layers); when applying on rough structured surface, the consumption is significantly increased

Color shade:

Colorless, RAL 7038, shiny

Packaging:

1,0 kg a 2,5 kg plastic package

Storage:

In original well-closed package in temperatures from 5 °C to 25 °C. It must not freeze!

Surface preparation:

ETERNAL lak na beton can be used also on not completely matured concrete (maturing for approx. 7 days). The surface must be dry, firm (tensile strength at least 1,5 MPa), tenacious, repaired (for example with cement mortar), cleared of all incoherent mechanical particles and old coatings (except for epoxy coatings, which are recommended to be lightly re-grinded) and degreased. It is recommended to clean the re-grinded surface with industrial vacuum cleaner.

Application:

ETERNAL lak na beton must be thoroughly mixed before application and then it is applied by brush or short-haired roller (for example Velur). **ETERNAL lak na beton** must not be diluted and is applied in original consistency in two layers. The application temperature of the surface and air must be between 15 °C and 25 °C and the relative humidity up to 75 %.

a) Clear coat:

After the first coat (50-70 grams/m²) has dried, the film may have an inhomogeneous appearance, but this will become uniform after the second coat (maximum 50 grams/m²) has dried. This should be applied optimally within 24 hours of the first coat (it must be dry and non-sticky). It is imperative that the coating is not applied thickly, which could result in cracking of the film. The treated surface is workable 24 hours after the second coat, and fully workable after 7 days.

b) Paint RAL 7038

As a first coat (50-70 grams/m²) **ETERNAL lak na beton** colourless is applied. After it has dried (optimally within 24 hours), two coats of **ETERNAL lak na beton** RAL 7038 (50-80 grams/m² for the first coat and the second coat) are applied, optimally 24 hours apart. The previous coat must always be non-sticky. It is imperative that the coating is not applied thickly, which could result in cracking of the film. The treated surface is workable 24 hours after the second coat, and fully workable after 7 days.

Warning:

During and after application the room must be thoroughly ventilated (at least 2 days after application), because methanol and ethanol can be leaking thanks to the chemical drying mechanism of the product. Used tools must be washed right after application with technical gasoline or other similar solvent.

Certification:

TZÚS Praha, s. p. Notified person 1020

Waste disposal:

Described on the Safety data sheet of the product.

Safety and hygiene at work:

ETERNAL lak na beton is classified as dangerous according to law. It contains N-(3-(trimethoxysilyl)propyl)ethylenediamine). It can cause serious eyes damage. It can cause allergic reaction on skin. Use

protective gloves/clothing/goggles/face mask. IF IN EYES: Rinse carefully with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. Contact TOXIKOLOGYINFORMATION CENTRE or doctor immediately. IF ON SKIN: Wash with plenty of water and soap. If the skin is irritated or rash appears, seek medical help. Dispose of the content/package in accordance with the relevant national legislation. **Make sure the area is thoroughly ventilated while applying and at least for 2 hours after the application of the product (methanol and ethanol is leaking while drying!!!)**. According to ČSN EN 65 0201the product is not a flammable liquid.

First Aid:

If swallowed, rinse your mouth with tepid water and drink at least 0,5 l of tepid water with 10 crushed charcoal tablets and seek medical help. Do not induce vomiting. Other details are described on Safety data sheet of the product.