

# 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  $\alpha$ -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 <sup>3</sup>
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		6 g/l
		0,00545kg/kg

### ***Consumption:***

0,08–0,12kg/m<sup>2</sup> (in two layers); when applying on rough structured surface, the consumption is significantly increased

### ***Color shade:***

Colorless, 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). It can be also applied by airless spraying. **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 %. After the first layer is dry (50–70 gram/m<sup>2</sup>), the film might not appear to be homogenous. It will become homogenous after the second layer is dried (max. 50 gram/m<sup>2</sup>). The second layer should be applied optimally to 24 hours after application of the first layer (it must be dry and non-sticky). While applying the product, it is necessary not to apply the coating in thick layer. This could cause ruptures in the film. The treated surface can be walked on after 24 hours from application of second layer and can bare a full load after 7 days. Used tools must be washed right after application with technical gasoline or other similar solvent.

**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.

**Certification:**

TZÚS Praha, s. p. Notified person1020

**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) polyethylenediamin). 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 by incineration in an incinerator of hazardous waste or by storing on landfills of hazardous waste.

**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 0201 the 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.