

# 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 characterized by deep penetration into concrete and other mineral surfaces, excellent chemical resistance, thermal resistance (for example welding, grinding), scratch resistance and fast drying. **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 designed for impregnating and thin-layer coatings of mineral surfaces, like polished and unpolished concrete floors in cellars, garages, workshops, shops, storages or exhibition spaces. Also for marble surfaces, concrete and stone tiles, tiles from natural 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).

This one component solvent free agent is transparent even in liquid form, is odorless, easily cleaned and repaired.

**ETERNAL lak na beton** is not suitable for direct 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.1,10–1,30 g/cm <sup>3</sup> |
| Consistency (F4, 23 °C)                |         | min. 35,0 s                        |
| Adhesion (grid)                        |         | 0 (perfect)                        |
| Adhesion (breaking away from concrete) |         | min. 3,0 MPa                       |
| Drying                                 | stage 1 | to 5 hours (23 °C)                 |
|  | stage 5 | to 12 hours (23 °C)                |
| Hardness (Persoz):                     | 1 day   | min. 18 %                          |
|  | 10 days | min. 35 %                          |
| Volume of Volatile organic matter:     |         |                                    |
| Category/subcategory of product        |         | A/i                                |
| Max. volume of VOC in the product      |         | 36 g/l<br>0,0274kg/kg              |

### ***Consumption:***

0,08–0,16 kg/m<sup>2</sup> (in two layers); when applying on rough structured surface, the consumption can increase significantly

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

Colorless, RAL 7038, shiny

### ***Packaging:***

0,35 and 0,7 kg can, 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 separate mechanical particles and old coatings (except for epoxy coatings, which are recommended to be lightly re-grinded) and degreased. It is highly 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 2–3 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) Colorless coating**

After the first layer is dry (50–70 grams/m<sup>2</sup>), the film might not appear to be homogenous. It becomes homogenous after the second layer is dried (max. 50 grams/m<sup>2</sup>). The second layer should be applied optimally until 24 hours after application of the first layer (it must be dry and non-sticky). It is highly recommended to apply the coating in thin layer. Otherwise ruptures and scratches could appear 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.

**b) Coating RAL 7038**

As the first layer (50–70 grams/m<sup>2</sup>) **ETERNAL lak na beton** colorless is applied. After it has dried (optimally within 24 hours), apply two coats of **ETERNAL lak na beton** RAL 7038 (70–90 grams/m<sup>2</sup> for the first coat and 50–70 grams/m<sup>2</sup> for the second coat) with an interval of optimally up to 24 hours. The previous coating must always be non-sticky. It is highly recommended to apply the coating in thin layer. Otherwise ruptures and scratches could appear 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.

**Warning:**

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

**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) 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.