

# ETERNAL® rop-izol

Serial Number 9404

***wear resistant coating for protection of concrete and concrete floors with insulation properties – temporarily resistant to petroleum products***

## **Features:**

**ETERNAL rop-izol** (ETERNAL petroleum insulation) is a water-soluble paint, prepared from a special acrylic copolymer, pigments, fillers and additives that give the paint specific characteristics. **ETERNAL rop-izol** is characterized by fast drying, excellent adhesion to concrete surfaces, excellent resistance to weathering, chemical de-icing agents, temporary immunity for oil and some chemicals. It has a high diffusion resistance for CO<sub>2</sub> and SO<sub>2</sub>.

## **Usage:**

**ETERNAL rop-izol** coating is designed for interior and exterior coating of concrete substrates and cement screed or lime plaster. It serves as an insulating coating impounding reservoirs or concrete floors to capture the leakage of petroleum products into the subsoil, and for coating surfaces potentially contaminated with petroleum products. The coating is resistant to diluted acids and alkalis (to a maximum concentration of 10 wt. %), kerosene, diesel fuel, heating oil, lubricating oils, gasoline, vegetable and animal fats, detergents, etc. The paint is not designed to isolate these effects from permanent chemicals and petroleum products. It can reliably withstand temporary load that is about 21 days. The paint is suitable for finishing concrete floors of garages, workshops, warehouses. It resists normal load reliably but is not suitable for coating floors on which sliding loads regularly occur. The coating allows a good overlap of concrete cracks to a width of 0,3 mm. Due to the high diffuse resistance for CO<sub>2</sub> and SO<sub>2</sub> **ETERNAL rop-izol** is suited for insulated and protective corrosion coatings concrete. **ETERNAL rop-izol** cannot be used for coatings placed permanently under water and exposed to a long-term high humidity. Not recommended for paints of highly troweled concrete without roughening the surface. Described properties of coatings without prior preparation of the substrate cannot be guaranteed (see Preparation of substrate).

## **Technical data:**

Dry matter		min. 55 wt. %
Specific weight		1,35 g/cm <sup>3</sup>
Dry matter (volume)		46,0 ± 1,0 vol. %
pH		7,5–9,5
Viscosity		10–15 Pa.s (23 °)
Drying	grade 1	up to 45 minutes
(23 °C, 55 % rel. humidity)	grade 5	up to 2 hours
Adhesion		min. 0,8 MPa
Water resistance		0,0 l/m <sup>2</sup> per hour
Frost resistance		min. 25 cycles
μ <sub>CO2</sub>		858 000
Resistance CHRL		115 cycles (without a change)
(TKP MDS-OPK, Chapter 18 in January 1997, Annex 3, ČSN 73 1326 C Method of automatic cycling II)		
Contain of volatile organic compounds (VOC):		
Category/subcategory of product		A/i
Max. volume VOC in product		62,5 g/l
		0,0463 kg/kg
TOC		0,0269 kg/kg

**Consumption:**

(final coat)

- concrete indoor floors: 0,4–0,5 kg/m<sup>2</sup> (2 layers)
- concrete outdoor floors: 0,5–0,8 kg/m<sup>2</sup> (3 layers)
- reservoirs: 1,0–1,2 kg/m<sup>2</sup> (3 layers)

**Shades:**

light gray

**Packaging:**

10 kg plastic containers

**Storage:**

Store (in the original unopened packaging) between 5–25 °C. It must not freeze!

**Surface preparation:**

The surface requirements for **ETERNAL rop-izol**:

- concrete, leveling and self-leveling cement-based materials aged for at least 28 days
- dry, moisture content can be a maximum of 5 wt. %
- cohesive, tensile strength of surface layers min. 1,5 MPa, if the coating has sufficient tensile strength, it has to be removed mechanically (such as blasting or milling)
- repaired (damaged areas must be repaired with cement mortar)
- cleaned from loose particles and old paint and grease
- new floors from the surface of anhydrite, concrete and other cement-based materials and polished concrete floors, are necessary to be blasted or abraded
- primed with undiluted priming agent **FORTE penetral** if desired chemical resistance, coating agents defrosting is necessary for penetration of **ETERNAL rop-izol** water-diluted in the ratio 3 : 1
- expansion joints are filled with a suitable and permanently flexible acrylic sealant.

For coatings made without prior proper preparation of the surface, we cannot provide any guarantees.

**Application:**

**ETERNAL rop-izol** is applied by a wide brush, painting brush, applicator or roller on the prepared surface. For indoor surfaces, 2 coats are sufficient. For outdoor areas and storage reservoirs 3 coats are needed. In any case, the recommended amount of paint should be used. The interval between coats is min. 5 hours depending on temperature and humidity of the surroundings. The modified surface can be walked on in about 5 hours after the last coat and is easily loadable after 3 days and completely cured after 7 days. Coats can be applied at temperatures near the surface of 8 °C to 30 °C. For outdoor applications, paint cannot be applied under intense direct sunlight. Tools should be washed with water immediately after usage.

**Certification:**

Bratislava TSÚS Notified Person No. 1301.

**Waste disposal:**

Included on the safety data sheet of the product.

***Safety and hygiene at work:***

When keeping basic hygiene rules **ETERNAL rop-izol** is not a health hazard. The product is a treated article, contains a biocidal product. It contains a reaction mixture CMIT/MIT (3:1) [Index number: 613-167-00-5]. May cause an allergic reaction. It is necessary to use suitable protective clothing, gloves and goggles. Wash skin with soap and water. In case of contact with eyes, flush immediately with water. If irritation does not stop, seek medical help. If accidentally swallowed, seek medical help. Do not induce vomiting. Other details are on the Safety data sheet of the product.