

SELF-PROTECTED LIQUID WATERPROOFING TUNNELS, BRIDGES

The **SOUPLETHANE 5 system**, composed of a **two-component, solvent-free and odorless polyurea-urethane resin**, can be applied cold. This system can be used in new construction and in rehabilitation.

It guarantees **continuous waterproofing with resistance to cracking**, making it ideal for the protection of concrete structures in tunnels (slab, upper and lower surfaces) and bridges.

CHARACTERISTICS

Chemical nature	Polyurea-urethane resin (aromatic) 2-component	Mix Ratio	Comp. A / Comp. B = 3/1 by volume
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Solvent-free Dry matter 100%

Color: grey, cream, others on request

Packaging: Pre-dosed kits of 5, 13 kg / kits of 35, 104, 1,040 kg

Shelf life: 12 months - From the date of manufacture and in its original unopened packaging, under cover at more than 5°C in a cool, ventilated place (frost-free)

QUALIFICATIONS - CSTB

VERITAS (Crack Resistance)

Fire resistance: B-s2-d0 (non-flammable)

HIGHLIGHT: RESISTANCE TO CHLORIDE ION DIFFUSION

Tested on coated concrete specimens (SOUPLETHANE 5 - 2 mm thick):

Chloride diffusion coefficient: not measurable ($\leq 1.10 \cdot 10^{-14} \text{ m}^2/\text{s}$)

compare with Diffusion coefficient of standard concrete ($32.3 \cdot 10^{-12} \text{ m}^2/\text{s}$) and high-performance concrete ($3.9 \cdot 10^{-12} \text{ m}^2/\text{s}$)

Tests carried out by the LERM laboratory., France

BENEFITS

- ✓ Easy application
- ✓ Quick drying 5 hours at 20°C
- ✓ 100% solids, classified as HEQ-VOC emissions
- ✓ Flash point above 200°C
- ✓ Excellent crack resistance (up to 4 mm)
- ✓ Excellent adhesion to concrete: 3.5 MPa
- ✓ Resistance to chloride ion diffusion
- ✓ Compatible with extreme temperature cycling: - 50°C/+80°C



KEMICA COATINGS

Reinventing coatings



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IMPLEMENTATION

SUBSTRATE PREPARATION Check the substrate humidity, relative humidity, product and substrate ambient temperatures, and dew point. The substrate should be clean, dry and free of moisture.

PREPARATION OF THE MIXTURE

Carefully re-homogenize component (A) before mixing - Knead the mixture A + B with a mechanical stirrer (mixer) for 40 sec.

APPLICATION: manual (notched comb/roller) or spray

CONSUMPTION:

Watery PU primer: 150 g/m²

SOUPLETHANE 5 : 2.6 kg/m²

POT LIFE : 40 mn

RECOVERY TIME: Minimum 5h to 72h for floors

1 hour for vertical

DRYING TIME: 24 h

FT and SDS available