



TopSealer[®] 100

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One-component, 100% solid aliphatic polyurethane varnish.



High-performance varnish based on polyurethane, with no odors, suitable for both interior and exterior applications. Its aliphatic property allows it to resist UV rays effectively, preventing yellowing.

It is suitable as a final finishing coat for continuous industrial and decorative flooring, whether cementitious or resin-based, offering high chemical and mechanical performance for medium to medium-high traffic.

It has excellent stain resistance and can withstand chemical spills.

Available in both glossy and matte finishes.

Properties

- Excellent abrasion resistance.
- Outstanding chemical resistance.
- Quick serviceability for pedestrian traffic: 24 hours at 20°C.
- Does not yellow indoors or outdoors.
- Odorless.

Recommended Uses

- Continuous, jointless flooring that requires easy cleaning and maintenance, such as micro-cements and decorative self-leveling floors.
- High mechanical resistance for medium to medium-high traffic, providing exceptionally high abrasion resistance of 40.7 mg Taber abrasion (CS17, 1000gr., 1000 rv).
- Coating for floors in areas prone to liquid spills that need protection against possible infiltration, such as containment areas and packaging zones. Suitable for application in low-temperature conditions, as it can catalyze at low temperatures (+1°C).
- Areas requiring quick serviceability, hardness, traffic resistance, and abrasion resistance, such as parking lots, supermarkets, libraries, hospitals, schools, residences, offices, cafeterias, etc.
- Fast start-up and low waiting time between coats (4-6 hours).
- Suitable for both indoor and outdoor use without yellowing, given its aliphatic nature.

Consumption

0.070 kg/m² consumption per coat.

Limitations

- Do not add water, solvents, or other substances.
- Do not wet or clean the flooring for the first 72 hours.
- Do not apply on surfaces with temperatures below 10°C or above 30°C, or with relative air humidity above 80%. Check that the floor temperature is at least 3°C above the dew point to prevent condensation on the surface.

Technical Data

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| Abrasion Resistance (EN 13892-2) | AR0.5 (3°C dew point) < 90% |
| Application Temperature | From 10°C to 30°C |
| Waiting Time for Traffic | Pedestrian: 24 hours Heavy: 5 days |
| Substrate Moisture | ≤ 4% |
| Temperature Resistance | From -21°C to 75°C |
| Compression Resistance (EN 13892-2) | > 65 MPa |
| Wear Resistance (Taber, CS17, 1000rpm, 1Kg) | Standard Version: 40 mg Anti-wear Version: 29 mg |
| Impact Resistance | > 14,7 Nm |
| Shore Hardness | 87 |
| Fire Behavior (Classification according to UNE-EN 13501-1) | CLASS Bfl s1 |
| Adhesion | > 3,4 MPa (on concrete) |
| Waiting Time Between Coats | From 4 to 6 hours |

Considerations Before Application

- On concrete floors without a vapor barrier, check for the absence of rising capillary moisture.
- Tools can be cleaned with universal solvent.
- European Directive 2004/42/EC VOC Directive: This product complies with
- European Directive 2004/42/EC Annex II, which relates to the limitation of emissions of volatile organic compounds (VOCs) and does not exceed the maximum limit allowed for VOCs (Phase II, 2010). Subcategory j - BD. According to the directive, the maximum allowed VOC content for its class is 500 g/l. The VOC content is less than 500 gr/l.

Composition

Modified polyurethane resins.

Instructions for Use

Surface Preparation

- The surface must be firm and cohesive.
- It should be free from dust, grease, oil, contaminants, poorly adhering materials, residue from previous materials, curing compound, etc.
- The microcement's moisture content should be less than 4% by mass, with a surface reading not exceeding 21°C using a Protimeter or equivalent. Roughly, you will need to wait 24-48 hours for the microcement to dry before applying the varnish. The time may vary depending on humidity and temperature. The slab should be at least one month old and should not exhibit capillary moisture rising from the subfloor (check for the presence of a vapor barrier) or perform the ASTM D 4263 test (plastic sheet test).

Priming

- Primer is not necessary.

Application

- Apply the varnish with a consumption of approximately 60 to 70 g/m² per coat.
- Apply two successive coats once the previous coat is dry to the touch (waiting time approximately 4-6 hours).
- Use a short-nap roller (microfiber) or a foam roller with a pore size of 0/1, as the consumption should be very low due to it being 100% solids.
- Apply thin and well-spread coats; excessive thickness in a single coat can hinder proper catalysis and may result in defective finishes with small bubbles and air entrapment, giving it an opaque appearance. Do not exceed 70 g/m² per coat.
- To achieve maximum performance, let it act for 7 days.

Presentation

Metal cans of 1 and 5 kg.

Tool Cleaning

The tools are washed with universal solvent.

Storage Conditions

The product must be stored in its original sealed container, protected from the elements, at temperatures between 10°C and 30°C, in a dry and well-ventilated place, away from heat sources and direct sunlight. The shelf life is 6 months from the date of manufacture when properly stored. Once the container is opened, the product must be used immediately.



The product should not be used for purposes other than those specified without first having written instructions for its handling. It is always the responsibility of the user to take appropriate measures to comply with the requirements established by regulations. The product's Safety Data Sheets are available to professionals.

Last updated: November 2023.