



TopSealer[®] 100

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Single component aliphatic 100% solids polyurethane varnish.



High-performance 100% solids polyurethane-based varnish, suitable for interior and exterior use, as a final finish layer in continuous industrial and decorative flooring, both cementitious and resin-based, with high chemical and mechanical performance, for medium and medium-high traffic.

High resistance to stains and chemical spills. Available in gloss and matt finish.

Properties

- Excellent abrasion resistance.
- Excellent chemical resistance
- Quick commissioning for pedestrian traffic: 24h at 20°C.
- It does not yellow indoors or outdoors, due to its aliphatic nature.

Recommendations for use

- Seamless continuous flooring with easy cleaning and maintenance requirements such as microcements and decorative self-levelling.
- areas of use where fast start-up, hardness, resistance to traffic and abrasion are required, such as car parks, supermarkets, libraries, hospitals, schools, residences, offices, cafeterias, etc.
- Floor coverings in areas subject to liquid spills that need to be protected from possible infiltration, such as bins and packaging areas.
- Suitable for indoor and outdoor use.

Performance

0.070 kg/m² consumption per layer.

PROPERTIES	SPECIFICATION	UNIT	METHOD
Nature	Aliphatic polyurethane		
Finishing	Matt and satin		
Density	1,19±0,01	g/cm ³	UNE-EN ISO 2811-1
Taber Abrasion (CS17, 1000g, 1000c)	40	mg	NE 48250
Hardness Persoz 7 days	91		UNE-EN ISO 1522
Adherence	> 3.4 (on concrete)	MPa	
Wear resistance	AR0,5 (<5 microns)		UNE-EN 13892-4
Impact resistance	> 14,7	N-m	EN ISO 6272-1:2012
Tensile strength	B2,0		UNE-EN 13892-8
Fire behaviour	CLASS Bfl s1		UNE-EN 13501-1
Temperature resistance	From -21°C to 75°C		
Substrate moisture	≤ 4%		
Application temperature	From 10°C to 30°C		
Lifetime	90	min	
Drying time between layers	14-72	hours	
Total curing time	7	days	
Waiting time for traffic	Pedestrian 24 hours Heavy 5 days		

PRODUCT	1H	3H	8H	24H
Water	5	5	5	5
Soap	5	5	5	5
Bleach	5	5	4	3
Vinegar	5	5	4	3
Ammonia cleaning	5	4	4	3
Alcohol (70°C)	5	4	3	3
Muriatic acid	5	4	3	3

CHEMICAL RESISTANCES
Caption:

5: No visible change.

4: Slight change, only visible with light change

3: Moderate visible mark.

2: Significant marking without affecting surface structure.

1: Important mark, affects the surface structure.

The results obtained are based on an application of 2 layers of varnish, 7 hours between layers and after 7 days of application.

The contact with the chemical agent tested was 1,3,8 and 24 hours.

Preparation of the support

- Before application, make sure that there is no rising damp on screeds without a vapour barrier.
- The support must be firm and cohesive.
- It must be clean of dust, grease, oils, free of contaminating impregnations, poorly adhered materials, remains of previous materials, curing liquid, etc.
- Moisture content of microcement should be less than 5% by mass, on surface not greater than 21° Protimeter reading or equivalent.
- It is necessary to wait approximately 24-48 hours for the microcement to dry before applying the varnish. The time may vary depending on the humidity and temperature. The slab must be at least one month old and free of capillary rising dampness from the subfloor (check for vapour barrier) or test ASTM D 4263 (plastic sheet test).
- Do not apply on floors below 10°C or above 30°C, or with relative air humidity above 80%. Check that the floor temperature is above the 3°C dew point, to avoid condensation on the surface.
- It is not necessary to apply primer before applying TOPSEALER 100.

Application

- Apply the varnish with a consumption of approx. 60 to 70 g/m² per layer. Do not add water, thinner or other substances.
- Apply 2 successive layers once the previous layer is dry to the touch (waiting time approx. 14-72h).
- The application must be made with a very short pile roller (microfibre) or 0/1 pore foam roller. The air drying time of the product is 90 minutes.
- Apply thin and well "combed" layers. Excessive thickness in a single layer hinders the correct catalysis and can produce defective finishes with small bubbles and air occlusion, resulting in an opaque appearance. Do not exceed 70 g/m² per layer.
- Do not wet or clean the floor before 72 hours. To achieve maximum performance, leave to act for 7 days.

Presentation

1 and 5 kg metal drums.

Cleaning of tools

The tools are washed with universal solvent.

Storage conditions

The product must be stored in its original closed container and protected from direct sunlight outdoors 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, if stored properly. Once opened, the product should be used immediately.



The product must not be used for purposes other than those specified, without first having written instruction in its handling. It is always the responsibility of the user to take appropriate measures in order to comply with legislative requirements. The Safety Data Sheets of the product are available to the professional.

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