TECHNICAL DATA SHEET

POLYURETHANE VARNISH FOR CONCRETE AND MICROCEMENT

- Two-component
- Protects and decorates
- Chemical and mechanical resistance
- UV protection

Colour: Clear
Effect: gloss, satin, matte
Capacity: 800 ml (component A+B)

POLYURETHANE VARNISH FOR CONCRETE AND MICROCEMENT is a two-component product based on water-based polyurethane resin, which creates a durable coating that is both mechanically and chemically resistant, and provides effective protection against moisture and dirt. It does not turn yellow and is resistant to UV radiation, which guarantees long-lasting surface aesthetics. Its advantage is that it is easy to clean - even heavy dirt, including tire marks, is easy to remove. The product is suitable for both indoor and outdoor use. It is perfect for protecting intensively used floor and wall surfaces, including microcement floors, resin and mineral floors, concrete and stone. It is particularly recommended for the protection of industrial floors with heavy traffic and exposed to high mechanical loads. It can also be used to protect surfaces coated with epoxy resin, polyurethane resin, cement coatings on floors and walls, and microcement and cement surfaces of various porosities. Its versatility allows for a wide spectrum of applications, both in residential and commercial spaces.

SUBSTRATE PREPARATION:

› The surface to be painted should be seasoned, degreased, clean and dry; It is absolutely necessary to remove all dirt, greasy stains, tarnish and efflorescence.
› Mechanically trowelled concrete and smooth, compact surfaces should be roughened to ensure adequate adhesion of the coating.
› In order to reduce absorbency, prime the substrate with GRUNT primer.
› In order to obtain proper adhesion of the varnish, before applying the next layer, the dried surface should be sanded with fine-grained sandpaper and then dedusted.

HOW TO USE:

› Immediately before painting, add component B to component A, mix thoroughly until a homogeneous mass is obtained.
Note: use the finished varnish (mixed component A+B) within 2 hours.
› Apply the first layer of varnish to the previously prepared surface with a roller dedicated to varnishes, spreading thoroughly until an even layer is obtained and wait for the coating to dry.
› The drying (curing) time of the coating is about 8 hours and depends on the conditions at the place of application of the product (temperature and humidity).
› After the first layer has dried, apply another layer of varnish in the same way.

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Note: apply the next layer from the prepared new portion of varnish (component A+B).

› The third layer of varnish is recommended for surfaces particularly exposed to water and weather conditions.

SPECIFICATIONS:

Performance features	Research method	Requirements according to ISO/FPC	Test result (range)
Abrasion resistance (Taber apparatus)	ISO 7784-2	Weight loss; after 7 days; abrasive wheel CS 17; 200 revolutions; 500 g load	< 10 mg
Resistant to wet scrubbing	ISO 11998	Loss of thickness; after 7 days; 200 scrubbing cycles; ISO sponge	< 0.7 µm
Resistance to weather conditions (Xenotest)	ISO 16474-2	Damage assessment according to ISO 4628-1; after 500 h of artificial aging (UV+water spray)	0-1(S0-S1)
Press-fit resistance according to Buchholz	ISO 2815	Length of the recess; after 7 days	< 1.0 mm
Relative pendulum hardness	ISO 1522	After 24 hours; Persoz pendulum	0,3 - 0,5
		After 7 days; König's pendulum	0,5 - 0,8
Pull-off grip	ISO 4624	Peel strength; after 7 days; punch diameter 20 mm	> 1.5 MPa
Gloss (60o)	ISO 2813	Matte	2 - 10 GU
		Gloss	70 - 90 GU

Surface resistance to cold liquids according to EN 12720		
Fluids tested	**Time of the study**	**Immunity assessment***
Ethanol (48%)	1 hour	4
NH4OH (10%)	1 h	4
Water demin.	10 days	5
Coffee (4%)	16 h	5
Tea (1%)	16 h	5
Red wine	16 h	4
Cola	16 h	5
Fatty acid (hand cream)	24 h	5
	10 days	5
Brake fluid (DOT4)	24 h	5
	10 days	5

* 5 – highest resistance, 0 – no resistance
Prepared on the basis of data from the manufacturer of the dispersion

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ADDITIONAL INFORMATION:

› Use personal protective equipment when mixing and applying the paint.

› Do not dilute both component A and component B.

› Optimal application conditions: temperature from +10°C to +30°C and relative humidity below 70%.

› Initial mechanical strength of the coating after 24 hours. Total mechanical and chemical resistance of the coating after 7 days, until then do not clean the painted surface, protect against water and dirt and mechanical damage.

› Mild detergents should be used to care for the painted surface. Do not use rough sponges.

› Wash the tools with water and detergent immediately after painting.

› After mixing the A and B ingredients, the can may become violently unsealed. Do not store in a closed container.

EFFICIENCY:

› Up to 12 m^2/l, depending on the type of substrate and method of application. Efficiency given for one layer.

NUMBER OF LAYERS:

› 2 to 3 layers, depending on the type of substrate and the desired effect.

SHELF LIFE:

› 24 months from the date of production. After mixing component A and B, use within max. 2 hours.

TRANSPORT AND STORAGE:

› Store and transport in airtight, original packaging at a temperature of +5°C to +40°C. Protect from frost.

COMMENTS:

› Keep out of reach of children.

› If swallowed, consult a doctor.

› VOC content limit (cat. A/j/WB): 140 g/l. The product contains max. 140 g/l.

› It contains 1,2-benzoisothiazol-3(2H)-one. May cause an allergic reaction.

› Detailed safety information is provided on the product packaging and in the Safety Data Sheet.

➢ Environmental Product Declaration Type III (EPD) ITB number 587/2024 based on PN-EN 15804 and verified in accordance with ISO 14025

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