



Surface Protection

2K POLYURETHANE VARNISH

Technical Data Sheet

Reviewed: 23.09.2024

DESCRIPTION

2K POLYURETHANE VARNISH is a clear 2 component aliphatic polyurethane varnish for exterior and interior use. Suitable for wood, cement, metal, copper, aluminum, polyester, stone and other surfaces with proper preparation. It contains new generation UV filters for effective protection against sunlight. The durable polyurethane-based formula provides a long-lasting finish with excellent mechanical and chemical resistance as well as resistance to humidity and extreme weather conditions. **2K POLYURETHANE VARNISH** is the ideal varnish providing a unique combination of hardness and elasticity.

ADVANTAGES

- Aliphatic system - does not yellow - does not peel
- Forms an elastic, seamless, transparent protective membrane
- Available in Gloss - Satin - Matt
- Excellent wear resistance
- Excellent adhesion properties on most substrates
- Excellent sun and frost resistance
- Easy application
- Retention of gloss for many years
- Interior and exterior use

APPLICATIONS

- Protection of most building surfaces.
- Waterproofing, sealing and protection of cement floors and surfaces.
- Ideal for use on all exterior and interior wooden surfaces.
- Waterproofing, sealing and protection of natural stone floors (for artificial stones a compatibility test is recommended).
- Ideal finish – varnish for metallic surfaces.
- Protection of epoxy pool coatings

INSTRUCTIONS FOR USE

Surface preparation

Careful surface preparation is very important for optimum finish and durability.

1. The substrate should be dry and free from dust, chalk, grease, and any foreign material that may harmfully affect adhesion.
2. Old, loose coatings, dirt, fats, oils, organic substances, and dust need to be removed by mechanical means such as a sanding machine or where possible with high pressure washing machine. Carefully remove dust after sanding.
3. Light sanding of wood surfaces is necessary. Carefully remove dust. Internal moisture of wood must not exceed 12%-14%. Degrease oily wood with nitro solvent or acetone.
4. New concrete floors need to dry for at least 28 days. Moisture must not exceed 5% and ambient humidity not over 70%.
5. All substrates must be completely dry prior to application and rain must be avoided for 48 hours.
6. Minimum application temperature 10°C.

Priming

Unsound surfaces can be primed with same material diluted 20% with solvent **DIL X - 100** for substrate strengthening.

Application

1. Mix carefully the 2 components taking care to ensure thorough mixing on the walls and the bottom of the pail.
2. Allow mixture to stand for 5 minutes.
3. Apply the first coat with a roller, brush, or spray gun.
4. Dilute 0-10% for roller or brush application and 10-20% for spray application.
5. You must avoid applying the varnish in heavily - thick coats, since it will not cure properly.
6. The second coat may be applied when the first is thoroughly dry: 12h (35°C) – 24h (15°C) depending on ambient temperature.
7. For maximum durability apply a third coat.
8. The final curing is achieved in 7 - 14 days.

Maintenance of surface: wash with a mild detergent and water, and rinse thoroughly.

CLEANING

Tools must be cleaned immediately after use with DIL X – 100 or nitro solvent

COVERAGE

80 - 120 ml/m² per coat depending on surface absorption. Apply at least two coats.

REMARKS

- Application conditions: Substrate's moisture: <4%, Surface's and Ambient temperature: 12°C - 35°C, Relative Air Humidity: <70%.
- Freshly painted surface must be protected from excessive humidity and rain for 36 – 48 hours.
- **2K POLYURETHANE VARNISH** contains solvents and during application good ventilation of the space should be ensured.
- It is advisable to use protective clothing, gloves, hat and mask with filter suitable for solvents.
- If recoating is carried out after 36 hours, the surface must be sanded with coarse sandpaper and dust must be removed.
- Curing as well as pot – life are affected by ambient temperature and humidity. Low temperatures and high humidity tend to increase pot – life while high temperatures and low humidity shorten the pot life.
- Before application, read carefully all instructions and information relevant to its safe and best use (Safety Data Sheet).
- The substrate must be at least 3°C above dew point to reduce the risk of condensation or blooming on the paint's finish.

Evochem[®]

EVOCHEM S.A.

Tzaverdella place 13341, Fyli, Attica, Greece

Tel.: 210 5590460, 210 5590155 Fax: 210 5590244

E-mail: info@evochem.gr Website: www.evochem.gr





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TECHNICAL CHARACTERISTICS

Base: Aliphatic polyurethane

Color: Transparent

Finish: Gloss, Satin, Matte

Specific gravity: 1,00±0,05 kg/Lt 25°C

Thinning: 0 - 20% with DIL X – 100

Recoat: 12 - 24 hours

Open time: 1 - 2 hours

Final curing: 7 - 14 days

Application temperature: +10°C - +35°C

VOC (Volatile organic Compounds) CONTENT: (Directive 2004/42/CE) EU maximum VOC content limit values for this product (category A/j(SB) (two pack reactive performance coatings): 500gr/lit (2010). This product contains maximum 499gr/lit VOCs (ready for use product).

STORAGE

Store in dry and cool storage conditions at temperatures 5°C - 30°C. Protect from moisture, frost and direct sunlight.

SHELF LIFE

At least 24 months in unopened containers. Products should remain in their original unopened containers, bearing the manufacturers batch number.

PACKAGING

Set (A+B) of 1Lt, 3Lt & 10Lt

PACKAGING	CODE	BARCODE
GLOSS 1Lt	5888	5204094058885
GLOSS 3Lt	5889	5204094058892
GLOSS 10Lt	5890	5204094058908
SATIN 1Lt	5891	5204094058915
SATIN 3Lt	5892	5204094058922
SATIN 10Lt	5893	5204094058939
MATTE 1Lt	5894	5204094058946
MATTE 3Lt	5895	5204094058953
MATTE 10Lt	5896	5204094058960

HEALTH AND SAFETY INFORMATION

Consult recent Safety Data Sheet before application.

COMPONENT A



UFI: YDV0-Q0GM-X00R-UJ82

COMPONENT B



UFI: 1AV0-60T7-N008-66P0

The directives contained in this technical data sheet are the result of our long experience from real life applications and the research testing of our research and development laboratory and have been submitted in good faith. Because of the diversity of the materials and substrates and the great number of possible applications, which are beyond our control, we cannot accept any responsibility for the results obtained. In every case it is recommended to carry out preliminary experiments. We are liable only for our products for being free from faults and of consistent quality. Users are responsible for complying with local legislation and for obtaining any required approvals or authorizations. The present edition of this technical datasheet automatically cancels any previous ones concerning the same product.



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Tzaverdella place 13341, Fyli, Attica, Greece

Tel.: 210 5590460, 210 5590155 Fax: 210 5590244

E-mail: info@evochem.gr Website: www.evochem.gr



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