



Wood Protection & Treatment

PREMIUM POLYURETHANE FLOOR VARNISH AQUA

Technical Data Sheet

Reviewed: 02.10.2024

DESCRIPTION

PREMIUM POLYURETHANE FLOOR VARNISH AQUA is a clear 2 component aliphatic polyurethane waterbased varnish that provides ultimate long lasting protection of exterior and interior wood, concrete, stone and metallic surfaces (floors & walls). It contains UV filters for superior protection against sunlight. The durable polyurethane based formula provides a long lasting finish with high mechanical and chemical resistance as well as resistance to pedestrian traffic, humidity and extreme weather conditions. The excellent combination of hardness and elasticity makes it the ideal floor varnish. It is ideal for applications where excellent performance is required but the use of solvent-based materials is not allowed.

ADVANTAGES

- Forms an elastic, seamless, transparent protective membrane
- Excellent wear resistance
- Does not crack or peel
- Does not turn yellow, excellent anti-chalking properties
- Excellent adhesion properties
- Excellent sun and frost resistance
- Anti slip properties
- Low odor formula – user friendly
- Surface can handle pedestrian and light vehicular traffic

APPLICATIONS

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

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. Possible dust after sanding must be removed.
3. Light sanding of wood parquet 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 65%.
5. All substrates must be completely dry prior to application and rain must be avoided for 48 hours.
6. Minimum application temperature 8°C.

Priming

Unsound porous surfaces can be primed with same material diluted 15-20 % with distilled water 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. Dilute 5-10% with distilled water for roller or brush application and 10-20% for spray application.
4. Apply the first coat.
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, 6 (35°C) to 24 (15°C) hours depending on ambient temperature.
7. Depending on surface absorption, a third coat may be required.
8. The final curing is achieved in 7-14 days (25°C).

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

CLEANING

Tools must be cleaned with water and detergent immediately after use.

COVERAGE

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

REMARKS

- Ideal application conditions: Substrate's moisture: <5%, Surface's and Ambient temperature: 12°C - 35°C, Relative Air Humidity: <65%.
- Freshly painted surface must be protected from excessive humidity and rain for 48 hours.
- 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.
- If recoating is carried out after 36 hours, the surface must be sanded with coarse sandpaper and dust must be removed.
- Before application, read carefully all instructions and information relevant to its safe and best use (Safety Data Sheet).
- Surfaces that may have had a siloxane-based water-repellent, oil-repellent impregnation or wax applied must be thoroughly cleaned with an acidic cleaner **OXY CLEAN CL17** or thoroughly scrubbed if possible and tested for suitability.
- **PREMIUM POLYURETHANE FLOOR VARNISH AQUA** is intended for professional use and trained applicators.
- **PREMIUM POLYURETHANE FLOOR VARNISH AQUA** is not suitable for heavy vehicle traffic.
- Do not paint surfaces with internal moisture as this may decrease the adhesion of the varnish.

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: waterbased Aliphatic Polyurethane

Color: Transparent

Finish: Matte

UV Filters: Yes – new generation with HALS

Mixing ratio: A : B = 4 : 1

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

Adhesion to concrete: >2,5 N/mm²

Thinning: 5 - 20% with distilled water

Pot Life: 1 - 2 hours

Recoat: 6 - 24 hours depending on temperature

Dry to walk: 24 - 48 hours

Final curing: 7-14 days

Application temperature: +8°C - +35°C

VOC (Volatile organic Compounds) CONTENT: (Directive 2004/42/CE) EU maximum VOC content limit values for this product (category A_j(WB) (two pack reactive performance coatings): 140gr/lit (2010). This product contains a maximum of 140gr/lit VOCs (ready for use product).

STORAGE

Store in dry and cool storage conditions at temperatures 5°C - 35°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 0,75Lt, 2,5Lt & 10Lt

PACKAGING	CODE	BARCODE
MATTE 0,75Lt	5740	5204094057406
MATTE 2,5Lt	5741	5204094057413
MATTE 10Lt	5739	5204094057390

HEALTH AND SAFETY INFORMATION

Consult recent Safety Data Sheet before application.

COMPONENT A

UFI: -

COMPONENT B

UFI: J3C0-J0C6-R00Q-5PHT



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.



TECHNICAL SUPPORT

210.5590460

MONDAY TO FRIDAY 8:00 - 16:00

Evochem®

EVOCHEM S.A.

Tzavardella place 13341, Fyli, Attica, Greece

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

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

