ECO PROTECTION VARNISH

Water-based aliphatic, satin-finish polyurethane topcoat

2K · water based ALIPHATIC POLYURETHANE	**5,000 h** QUV WEATHERING · ASTM G53 PASSED	**150–300 g/m²** CONSUMPTION · ONE OR TWO COATS	**> 5 °C** APPLICATION TEMPERATURE

DESCRIPTION

Eco Protection Varnish is a two-component, water-based, aliphatic topcoat with exceptional performance in a multitude of applications. It has excellent UV, chemical, water and abrasion resistance. Application is carried out with a roller at a consumption of 150–300 g/m² (in one or two coats).

PIGMENTATION

The product is easily pigmented with off-the-shelf water-based pigment pastes at 5–10% by weight, depending on the hiding power required. As a topcoat over Silicate Systems mineral floors, it sets the colour and follows the NCS or RAL reference of the project.

RECOMMENDED FOR

- UV-protective (pigmented) coat for self-levelling polyurethane and epoxy floors
- Parquet protection
- Microcement and self-levelling mortar protection
- Industrial paint

FEATURES AND BENEFITS

- Water based
- Easy to apply
- Fast curing
- Excellent UV resistance
- Easy pigmentation with water-based pigment concentrates

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Technical information

TECHNICAL SPECIFICATIONS

PROPERTY	UNITS	METHOD	SPECIFICATION
Viscosity (Brookfield), Comp. A + Comp. B	cP	ASTM D2196-86, @ 25 °C	500–800
Specific weight	g/cm³	ASTM D1475 / DIN 53217 / ISO 2811, @ 20 °C	1.00–1.10
Required application temperature	°C	–	> 5
QUV accelerated weathering test (4 hr UV @ 60 ºC, UVB lamps & 4 hr COND @ 50 ºC)	–	ASTM G53	Passed (5,000 hours)

COMPONENT DATA

PROPERTY	COMP. A · HARDENER	COMP. B · BASE
Product code	12-2-29-A-ECO-PROTECTION	12-2-29-B-ECO-PROTECTION
Physical state · colour	Liquid · colourless	Liquid · colourless
Density	1.15 g/cm³	1–1.1 g/cm³
pH	Not applicable	8–10
Flash point	≈ 185 °C	> 65 °C
Flammability	Non flammable	Non flammable
VOC content (2004/42)	0 g/l	87 g/l

Values per component, from the Safety Data Sheets (Comp. A version 1.1, 10 Feb 2026; Comp. B version 1.0, 8 Jul 2024).

PACKAGING

Small kit	0.8 kg Comp. B + 0.08 kg Comp. A
Large kit	4 kg Comp. B + 0.4 kg Comp. A
Mixing ratio (by pack weight)	B : A = 10 : 1

SHELF LIFE AND STORAGE

Shelf life	6 months minimum
Storage temperature	5–25 °C

Can be kept for 6 months minimum in the original unopened pails in dry places and at temperatures of 5–25 ºC. Keep away from heat sources and direct sunlight.

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Application procedure and safety

MIXING

Ensure both components are at room temperature before use. Mix the two components thoroughly.

CONSUMPTION

Minimum consumption 150 g/m².

CLEANING

Clean tools and equipment with water.

APPLICATION

Apply with roller or spray. Do not disturb applied material with excessive rolling, as roll marks may appear. The material is relatively fast drying, so any additional rolling after the first application will cause surface defects. Make sure the first coat is completely dry before the second coat is applied.

SAFETY INFORMATION

Comp. A — Warning — GHS07

H317 May cause an allergic skin reaction. H332 Harmful if inhaled. H335 May cause respiratory irritation. EUH204 Contains isocyanates. May produce an allergic reaction. Do not breathe vapours. Wear protective gloves and face protection. Use only outdoors or in a well-ventilated area. For professional use only.

Comp. B — Not classified

EUH208 Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction. Not classified as dangerous goods for transport (ADR / IMDG / IATA / ADN / RID), either component.

AVAILABLE ON REQUEST

Material Safety Data Sheets for Comp. A and Comp. B.

The content of this technical data sheet corresponds to the latest development and our applications experience. All information is based on ideal conditions and therefore does not apply for every application purpose. Due to different materials, substrates and different actual site conditions no warranty is given for the customer's application. In particular, we assume no liability based on this information or any verbal statements. The only exception is when we can be blamed for the case of intent or gross negligence. In that case the customer has to prove that he has transmitted all required information completely and in a timely manner for a proper and promising evaluation by ETS Europe. Any further details regarding the application of our products have to be confirmed in writing by ETS Europe. The customer must test the product's suitability for the intended application and purpose. We reserve the right to change the product specifications due to the ongoing development. Apart from that our general terms and conditions are valid. This data sheet supersedes all earlier technical data on this product.