

Hardfloor varnish PU 2KS

Premium Quality Transparent Two-Pack Polyurethane Varnish



HARDFLOOR VARNISH PU 2KS is a transparent, high-quality, two-component polyurethane acrylic varnish, ideal for the protection and decoration of pressed cement screeds, cementitious surfaces, metal substrates, natural stone, polyester, industrial floors and resin-based systems, for both interior and exterior applications. It stands out for its strong adhesion and excellent resistance to UV radiation, seawater, moisture and extreme weather conditions such as snow, frost, hail, standing water, exhaust fumes and atmospheric pollutants. Its advanced formulation, based on next generation interpenetrating resin systems, prevents yellowing, peeling and scratching, maintaining its gloss and elasticity over time. Forms a hard, non-slip film with high resistance to abrasion, scratches, moisture, oils, greases, solvents, alkalis, chemicals and detergents. Thanks to its UV filters and HALS (Hindered Amine Light Stabilizers), it provides long-lasting protection and flawless appearance, making it ideal for coastal and mountainous environments. It is available in gloss, satin and matte finishes.

Properties - Advantages

- **Rapid Curing:** Cures quickly and becomes walkable after 24 hours (at +25°C and relative humidity below 65%), achieving full hardness within 7 days, allowing for fast re-use of the treated surfaces.
- **UV and Temperature Resistance:** Formulated with UV filters and HALS (Hindered Amine Light Stabilizers) for enhanced protection against ultraviolet radiation. It prevents yellowing, chalking and sun-induced degradation. It is also resistant to extreme temperature fluctuations from -30°C to +80°C, making it ideal for outdoor flooring and areas exposed to heat or frost.
- **Abrasion Resistance:** Exhibits excellent wear resistance with an abrasion loss of 42 mg (ASTM D4060), ensuring long-term durability even on high-traffic floors.
- **Elasticity & Crack Resistance:** Demonstrates outstanding flexibility (180° bend – ASTM D522 torsion test), protecting surfaces from cracking and delaminating under mechanical stress.
- **Adhesion to Challenging Substrates:** Offers excellent adhesion to materials such as metals, polyester composites and concrete surfaces - ensuring long-

lasting performance in industrial applications such as factory floors, frameworks, steel components and exterior decorative cementitious systems.

- **Chemical, Pollutant & Cleaner Resistance:** Protects against pollutants, organic and inorganic acids, alkalis, petroleum derivatives, oils, detergents and certain solvents, making it ideal for industrial zones and areas requiring chemical resistance.
- **Waterproofing & Moisture Protection:** Forms a fully waterproof membrane that prevents moisture ingress and protects against deterioration caused by prolonged water exposure - suitable for applications in swimming pools, bathrooms and areas with standing water.

Thinning

Up to 15% with polyurethane thinner 4099 or P2, depending on temperature. For industrial use only and spray-gun or airless spray application, thin 20-30% with VERNILAC 4099, P2 or P3 thinner, depending on temperature.

Physical / Technical Characteristics

PROPERTY	GLOSS	SATIN	MATT
Viscosity	63 ± 5 CF 4 at 25°C	88 ± 5 CF 4 at 25°C	46 ± 5 DIN No.6 at 25°C
Specific gravity			
GLOSS LEVEL @ 60°			

Mixing

4 parts of component A with 1 part of component B by volume.

Workability of mixture – pot life

3-4 hours, at a temperature of 30°C. At higher temperatures the workability of the mixture decreases.

Application

Before application, it is always necessary to stir the two components separately. Then, mix the two components of ACRYPOL 2K PRIMER and stir well until the mixture is completely homogenized. After stirring and mixing is complete apply by brush or roller, one coat of ACRYPOL 2K PRIMER diluted up to 15% with polyurethane thinner 4099 or P2. For industrial use and application via spray-gun or airless, dilute 20%-30% with thinner 4099 or P2. After 2 hours apply a



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second coat of ACRYPOL 2K PRIMER. Time from hand to hand without sanding 4 hours. If you exceed 4 hours, you should sand the surface before applying the second layer. After drying of the last layer (at least after 24 hours) sand to a smooth surface, with a suitable abrasive, before applying the 2-component topcoat of your choice ACRYPOL 2K PAINT or MARINE-1 PAINT. Alternatively, any single or two component water or solvent-borne topcoat can be applied over ACRYPOL 2K PRIMER.

Drying - Repainting

Drying at a temperature of 25°C: Touch dry: 30 minutes. Recoat: after 2 hours. Drying and recoating times depend on the environmental conditions (temperature - humidity). Avoid application at temperatures below 5°C or above 35°C.

Consumption

Approximately 12-14 m²/L, per layer, on properly prepared surfaces, for a dry film thickness of 70-110µm.

Shades

Available in White.

Storage

The factory-sealed package is kept for at least 6 months in a shaded and cool environment, at temperatures ranging from 5°C to 35°C. After application, tightly seal the container and store in suitable conditions.

Cleaning tools

Immediately after use, clean tools with ACETONE or VERNILAC's polyurethane solvent 4099. Do not pour washing liquids into water courses.

Volatile organic compounds (VOC)

The maximum EU limit value (Directive 2004/42/CE) for this product [Category A/j "Two-pack reactive performance coatings for specific end use such as floors", Type SB] is 500 g/l (2010). This product contains maximum 499 g/l VOC (ready for use).

Packaging

PRIMER	1 lt	4 lt
HARDENER	0,25 lt	1 lt

Safety information

Read the label before use. For detailed instructions - precautions, consult the Product Safety Data Sheet. Poison Information Centre: (+30) 210 77 93 777.

THE PRODUCT IS INTENDED FOR PROFESSIONAL USE ONLY



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