

EPU H²O

POLYURETHANE, WATER BASED VARNISH

Description

H²O two-component polyurethane water based varnish, coming in 3 different glosses : matt (M), satin (S) and brilliant (B)

Features

- Resistant to water, detergents, oils, fuels
- Hard glossy, satin, or matt surface resistant to impact and abrasion
- No yellowing and UV resistance
- Good resistance to diluted acid and alkaline solutions
- Application temperature +5°C do +40°C

Fields of application

H²O improves the floor resistance to traffic and scratches and gives it a gloss, matt or satin surface finish.

Application guidelines

H²O can be applied with roller or spray.

a) Substrate Preparation

Surface must be clean, grind and dry. Remove dust, laitance, grease, curing compounds, Preparation bond inhibiting impregnations, waxes and any other contaminants. All projections, rough spots, etc. should be dressed off to achieve a level surface prior to the application. Concrete - Should be cleaned and prepared to achieve a laitance-free and contaminant-free, open textured surface by shot blasting or equivalent mechanical means (CSP-3 to CSP-4 as per ICRI guidelines). Sweep and vacuum any remaining dirt and dust with a wet/dry vacuum. Removing residual dust will help ensure a tenacious bond between the primer and substrate. Whenever "shot-blasting" is utilized, be careful to leave concrete with a uniform texture. "Over-blasting" will result in reduced coverage rates of the primer and/or subsequent topcoats. The "shotblast" pattern may show through the last coat, known as "tracking". The compressive strength of the concrete substrate should be at least 3,500 psi (24 MPa) at 28 days and at least 215 psi (1.5 MPa) in tension at the time of application.

b) Preparation of the product

For bulk packaging, when not mixing full units, each component must be pre-mixed separately to ensure product uniformity.

Premix each component separately. Empty Component B (Hardener) in the correct mix ratio into Component A (Resin). Mix the combined components for at least 3 minutes using a low speed drill (300 - 450 rpm) and Exomixer or Jiffy type paddle suited to the volume of the mixing container to minimize entrapped air. Be careful not to introduce any air bubbles while mixing. Make sure the contents are completely mixed to avoid any weak or partially cured spots in the coating. During the mixing operation, scrape down the sides and bottom of the container with a flat or straight edge trowel at least once to ensure complete mixing. It is important to remember that this coating has a limited pot life, thus mix only the quantity that can be used within its pot life. Do not leave the mix in the container too long because it will shorten its pot life.

c) Application

H²O Apply with a short roller or sprayer.

Handling and storage

H²O can be stored for 12 months in its original packaging in a dry place at a temperature between +5°C and +35°C.

Wear protective equipment (gloves/safety glasses/clothing) to prevent contact with skin and eyes. Keep container closed in a cool dry place. Wash skin thoroughly with soap and water after use. Use with adequate, general and local, exhaust ventilation. In absence of adequate ventilation, use a properly fitted NIOSH respirator. Remove contaminated clothing. Launder before reuse.

PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA			
VERSION	GLOSSY	MATT	SATIN
COLOR	Transparent	Transparent	Transparent
POT LIFE 22°C	>3h	>3h	>3h
DENSITY	1,05 +/- 0,02 g/l	1,05 +/- 0,03 g/l	1,06 +/- 0,03 g/l
MIXING RATIO A/B	76 / 24	82/18	82/18
DRY CONTENT	48 +/- 2%	43 +/- 2%	46 +/- 2%
HARDENING TIME Touch dry / Chemical contact	5h / 5 dni		77°F / 25°C