

DECOFIN AQUA PU



Two-component water soluble clear polyurethane varnish with matte finish



PROPERTIES

Two-component, aliphatic polyurethane based varnish. It is water soluble and odorless with matte finish. The varnish presents exceptional hardness, high abrasion resistance and very strong adhesion. Long-lasting and durable against ultraviolet (UV) radiation. It does not yellow, even when several years have passed from its application. Ideal for use in confined spaces which are not adequately ventilated, but also where the use of solvent based products is not desirable. Its application will preserve the colors and shades of the surfaces it was used on. Friendly to humans and the environment. Classified as product for surface protection for concrete surfaces, per EN 1504-2.

APPLICATIONS

DECOFIN AQUA PU is suitable for the protection of decorative microcement, microcement in paste forms and natural stone. On cementitious floors, it creates an invisible film that protects from wear, abrasion, staining, and dusting (powdering of cementitious surface).

USE

1. Surface preparation

The careful preparation of the substrate is absolutely necessary so as to ensure excellent final results. The surface must be dry, free from dust, grease, oils, and loose materials. The relative humidity at the application site should be less than 65%. Before applying the product as a protective varnish on decorative microcement, microcement in paste form and cementitious floors in general, surfaces should be primed with the micromolar stabilizer (primer) AQUAFIX of DUROSTICK, diluted 30% by weight with clean water. Once the primer dries, continue with the application of DECOFIN AQUA PU in one to two coats. Apply the second coat four hours after the completion of the first coat.

- **Microcement:** The minimum curing time of decorative microcement that will be coated with the varnish, have to be no less than 4 days, at temperatures of no less than +20°C and 7 days at lower temperatures.

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- **Microcement in paste form:** Apply the varnish 24-48 hours after the completion of the microcement in paste form application, and definitely once the microcement is dry (always depending on the moisture and the temperature levels).
- **Cementitious surfaces:** Apply the varnish thirty days after the surface construction and completion.
- **Natural stone:** Apply the varnish in two coats, without priming.

2. Application

Empty the content of container B into container A. During the mixing procedure of the two components, make sure that the entire content of container B emptied into container A. If there is any product left within container B, empty a small quantity of the container A product into container B, and mix it using a low-rpm drill until the mixture is thoroughly homogenized. Allow for five minutes to pass before applying the mixed varnish. This will prevent any air from being trapped within the mixed varnish during application. Apply the mixed varnish as is, without any dilution. Use a paint roller, a brush or an airless spray in one to two coats, depending on the application. The thickness of the dry film is 40µm per coat.

NOTES

- Surfaces with existing coats of varnish or other waterproofing agents have to be sanded down and thoroughly cleaned to increase the adhesion of DECOFIN AQUA PU.
- DECOFIN AQUA PU acquires water resistance in three days and its final mechanical strengths seven days after its application
- After drying the product forms a completely **transparent** protective film.

CLEANING

Clean all tools with water immediately after use and continue cleaning using detergent.

CONSUMPTION

- **For microcement in paste form:** 1kg/8-10m² for two coats.
- **For cementitious microcement:** 1kg/5-7m² per coat.

- **For natural stone:** 1kg/7-8m² per coat. Depending on their absorbency, and on properly prepared surfaces.

PACKAGING

Carton box with 6 pcs. of 1kg each one
(A: 815gr, B: 185gr)

Carton box with 4 pcs. of 3kg each one
(A: 2445gr, B: 555gr).

STORAGE

Component A: Store in its factory sealed container, under normal storage conditions and protected from frost, humidity for 24 months from production date.

Component B: Store in its factory sealed container for 6 months from production date.

SAFETY DIRECTIONS

Component A: The product needs no hazard labeling under current European and National legislation. However, it is recommended to keep the product away from the reach of children. If swallowed, seek immediate medical advice and show the container or label.

Component B: The product is classified as irritant. It is recommended to keep away from the reach of children. Before use, refer to the cautions on the product packaging or the Material Safety Data Sheet

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TECHNICAL SPECIFICATIONS	
Chemical base	Two component water based polyurethane
Color	Comp. A: white Comp. B: transparent
Density (A)	1.00±0,05kg/lt
Density (B)	1.00±0,05kg/lt
Mixing ratio A/B	4.4:1 by weight
Gloss	Matte
Pot life	4-5 hours
Curing time	7 days at 25°C
pH	8.0±0,5
Application temperature	From +10°C to +35°C
Temperature resistance	From -30°C to +80°C
Drying time	1 hour (touch dry), depending on weather conditions (moisture, temperature)
Recoating time	After 4 hours
Foot traffic	After 24 hours, depending on weather conditions (moisture, temperature)
Dilution	Ready to use product. Do not dilute.
Abrasion resistance (EN 13892-8)	≥ 2.5 N/mm ²
SHORE D hardness	45±5
Friendly to human and the environment	
V.O.C. (Volatile Organic Compounds): Limit value of maximum content of VOC per EU (Directive 2004/42 / EC) for this product (category A/j: 'Two-pack performance coatings', type WB): 140 gr/lt (2010). The ready to use product contains maximum 100 gr/lt V.O.C.	



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