

# 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 that 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. Classified as product for surface protection for concrete surfaces, per EN 1504-2.

## ■ APPLICATIONS

DECOFIN AQUA PU is suitable for protecting 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

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 sections. 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.

Cementitious microcements: The minimum curing time for 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.

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.

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### 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 in container B, empty a small quantity of the container A product into container B, and mix it using a low-rpm electric mixer 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, without dilution. 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 strength develops seven days after application.
- After drying the product forms a completely **transparent** protective film.

### ■ CLEANING

Clean all tools with water, immediately after and then with a detergent.

### ■ CONSUMPTION

#### • For microcement in paste form:

1kg/8-10m<sup>2</sup> for two coats.

#### • For cementitious microcement:

1kg/5-7m<sup>2</sup> per coat.

#### • For natural stone:

1kg/7-8m<sup>2</sup> 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, protected from frost and humidity for 24 months from production date.

**Component B:** Store in its factory, hermetically 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 Safety Data Sheet.

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TECHNICAL SPECIFICATIONS		
■ Chemical base	Two-component water-based polyurethane	
■ Color	Comp. A: white	Comp. B: transparent
■ Bulk density (A)	1.00±0.05kg/lt	
■ Bulk density (B)	1.00±0.05kg/lt	
■ Mixing ratio A:B	4.4:1 by weight	
■ Gloss	Matte	
■ Pot life	4-5 hours	
■ Complete polymerization 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	A ready to use product. Do not dilute.	
■ Abrasion resistance (EN 13892-8)	≥ 2.0 N/mm <sup>2</sup>	
■ SHORE D hardness	60±5	

**V.O.C. (Volatile Organic Compounds):**

Limit value of maximum content of VOC per EU (Directive 2004/42/CE) for this product (category A/j: 'Two-pack performance coatings', type WB): 140gr/lt (2010). The ready to use product contains maximum 100gr/lt V.O.C.

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The technical specifications and directions of use contained in this technical data sheet are the results of the knowledge and experience of the company's research and development department, as well as from the real-life applications of the product. The recommendations and suggestions regarding the use of the products are made without guarantee since the respective conditions during their application are beyond the control of the company. For this reason, it is the user's responsibility to make sure that the product is suitable for the intended application as well as the application conditions of the project.