

DECOFIN POLYURETHANE



Two-component polyurethane varnish with matte finish for microcement and natural stones



■ PROPERTIES

Two-component, aliphatic solvent-based polyurethane varnish. It is applied to create a flexible, transparent protective membrane that does not yellow. Durable against contact with organic and inorganic acids, alkalis, mineral oils, and certain solvents.

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

■ ADVANTAGES

- Resistant to UV radiation and weather effects.
- Highly abrasion resistant.
- Does not chalk and discolor over time.
- Highlights the natural beauty of the linings where it is applied, without a gloss finish.

■ APPLICATIONS

DECOFIN POLYURETHANE is suitable to waterproof and protect natural stone, microcement and

microcement in paste form, such as DS-258 DECO MICRO FLEX of DUROSTICK, on interior and exterior spaces. It is highly recommended as an additional protection coating against salty air, on already painted/coated cement or plastered surfaces.

■ USE

1. Surface preparation

Careful preparation of the substrate is crucial for achieving the exceptional results polyurethane systems are capable of yielding. The key factors for the surface preparation are to be dry, clean, and free from oily substances and loose sections.

Natural stone: Apply the product after 3-4 weeks from grouting and from the removal of all construction residues by using the natural stone cleaner, DUROSTICK D-7. The product adheres soundly to surfaces that were previously coated with acrylic varnishes.

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Cementitious surfaces: The concrete class has to be at least C20/25, and the moisture should not exceed 4%. At least 30 days must have passed from the pouring date of the concrete element.

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 8 days at lower temperatures.

Microcement in paste form: Apply the varnish 24 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).

2. Application

Empty the contents of container B into container A and mix using a low-rpm electric mixer for 2-3 minutes. Mixing should also be done both on the walls as well as at the bottom of the container, in order for the hardener (B) to be distributed evenly. After mixing the two components, allow for the mixture to rest for 5 minutes before the application so as to avoid air being trapped in its mass. Continue by applying the mixed varnish with a short nap roller or brush, without dilution. DECOFIN POLYURETHANE acquires its maximum strength seven days after application.

■ NOTES

- Do not apply if there is a chance of rain or frost within the next 48 hours.
- High humidity on the application surfaces can affect the polymerization of the varnish. It is recommended that the relative humidity in the application area be less than 65%.
- Surfaces must not be cleaned with water before application and must be **completely dry** during application.
- On some substrates that exhibit high alkalinity (cementitious surfaces, microcement etc.) immediately after the varnish dries, white surface spots may form. To avoid the problem, but also to maintain their final color(s), it is highly recommended to first apply the micromolar stabilizer (primer)

AQUAFIX of DUROSTICK with a dilution rate of 30% by weight with clean water. Continue with the varnish application the next day.

- The addition of ANTISLIP ADDITIVE POWDER, at a rate of 2% to 4% by weight of liquid varnish, provides a non-slip surface to the floors, even when wet.

■ CLEANING

Clean all tools with THINNER 201 of DUROSTICK, immediately after use.

■ CONSUMPTION

1kg/7-8m² per coat, depending on the absorbency of the surface.

■ STORAGE

Store in the original, hermetically sealed factory container, in places protected from the sun and frost for 12 months from production date. It is possible for moisture to polymerize component B inside the container.

■ SAFETY DIRECTIONS

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.

■ PACKAGING

Carton box with 6 pcs of 750gr each one
(A: 547gr, B: 203gr)
5kg container (A: 3.65kg, B: 1.35kg)

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TECHNICAL SPECIFICATIONS	
■ Chemical base	Two-component aliphatic polyurethane
■ Color	Transparent
■ Gloss	1st coat: matte finish, 2nd coat: satine finish
■ Bulk density μείγματος	1.04±0.05kg/lt
■ Mixing ratio A:B	2.7:1 by weight
■ Pot life	Approximately 2 hours at 25°C
■ Drying time	2-3 hours, depending on ambient conditions
■ Recoating time	24 hours
■ Foot traffic	After 12-18 hours at 20°C, 24-36 hours at 10°C
■ Application temperature	From +10°C to +35°C
■ Temperature resistance	From -30°C to +100°C
■ Complete polymerization time	5-7 days at 20°C, 7-14 days at 10°C

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

Limit value of maximum content of V.O.C. per EU (Directive 2004/42/CE) for this product (category A/j: 'Two-pack performance coatings', type SB): 500gr/lt (2010). The ready to use product contains maximum 499gr/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.