

DECOFIN POLYURETHANE



Two-Component polyurethane varnish with matte finish for microcement & natural stones



■ PROPERTIES

Two-component aliphatic polyurethane varnish, with solvents. After its application, a flexible and clear, protective matte film is created, which does not yellow over time. It is resistant to contact with organic and inorganic acids, alkalis, mineral oils and certain solvents.

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

■ ADVANTAGES

- It is resistant to UV radiation and adverse weather conditions.
- Highly resistant to abrasion.
- Does not show chalking nor discoloration over time.
- Highlights the natural beauty of the surfaces where it is applied, without luster.

■ APPLICATIONS

DECOFIN POLYURETHANE is suitable for the protection and waterproofing of natural stones, microcement and microcement in paste form, such as

DS-258 DECO MICRO FLEX, both indoors and out. It is highly recommended as additional protection 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 oils and loose materials.

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

- **Cementitious surfaces:** The concrete class has to be at least C20/25 and the moisture should not exceed

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4%. At least 30 days have to have passed from the pouring date of the concrete element.

- **Microcement:** The minimum curing time of microcement that will be coated with the varnish, has to be no less than 4 days, at temperatures of +20°C and above. For temperatures below +20°C, the wait period has to be at least 8 days at a minimum.

- **Microcement in paste form:** Apply the varnish one day after the completion of the installation (depending on the ambient conditions and the substrate) and after the product has thoroughly dried.

2. Application:

Empty the contents of container B into container A and mix with a low-rpm drill for 2-3 minutes, until the complete homogenization of the mixture occurs. The 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 uniformly distributed and to homogenize properly. Allow the mixture to stand for 5 minutes before the application, so as to avoid air to be trapped within the varnish. Use a short pile roller or brush to apply the varnish undiluted. DECOFIN POLYURETHANE acquires its final strengths 7 days after application.

■ NOTES

- Do not apply if there is a chance of rain or frost in the next 48 hours.
- High humidity on the application surfaces can affect the polymerization of the polyurethane varnish. It is highly recommended that the relative humidity in the air should not exceed 65%.
- The surfaces should not be cleaned with water before the application and they have to be completely dry during application.
- Some substrates (cementitious surfaces and microcement) that exhibit high alkalinity, can develop white surface stains immediately after the varnish fully dries. As a solution, to avoid this problem and also to maintain their color, it is suggested to first apply the micromolar stabilizer (primer) AQUAFIX of DUROSTICK at a dilution rate of 30% by weight with

clean water. The next day, follow the preparation with a coat of the polyurethane-based varnish.

- The addition of ANTISLIP ADDITIVE POWDER, at a rate of 2% to 4% by weight of the liquid varnish, gives an antislip top surface to the coated floors, even when they get wet.

■ CLEANING

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

■ COVERAGE

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

■ STORAGE

Store in the factory airtight sealed container, in places protected from the sun and frost, for up to 12 months from production date. It is possible for moisture to polymerize component B inside its 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 Material 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: satin finish
■ Mixture density	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 weather 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
■ Cure time	5-7 days at 20°C, 7-14 days at 10°C.

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

Limit value of maximum V.O.C. content per EU (Directive 2004/42/EC) 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.



DUROSTICK S.A.
ASPROPYRGOS ATHENS PC:193 00
GREECE 19

DoP No.: 144
EN 1504-2
DECOFIN POLYURETHANE
Surface protection product-Coating

Permeability to CO₂:
Water vapour permeability:
Capillary absorption:
Adhesion strength:
Artificial weathering:
Reaction to fire:

S_D > 50m
Class I (permeable)
w < 0.1kg/m²·h^{0.5}
≥ 0.8N/mm²
Pass
Euroclass F

Dangerous substances comply with 5.4

DUROSTICK S.A.,
MANUFACTURING OF ADHESIVES,
PAINTS & MORTARS
ATHENS: ASPROPYRGOS, ATTICA, GR: 193 00,
Tel: +30 211 60 03 500-599, +30 210 55 16 500,
+30 210 55 98 350, Fax: +30 210 55 99 612
THESSALONIKI: INDUSTRIAL PARK-SINDOS, S.B. 44,
STREET, DA 10, GR: 570 22,
Tel: +30 2310 795 797, +30 2310 797 365,
Fax: +30 2310 797 367
Email: info@durostick.com

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