

WATERPROOF 400



Two-component aliphatic polyurea clear varnish



PROPERTIES

High performance polyaspartic, fast curing, two-component aliphatic (cold polyurea) clear varnish, with resistance to UV. It presents strong adhesion to any type of sound building surface while yielding a harmonious balance of flexibility, together with mechanical and chemical strength. Classified as product for surface protection of concrete surfaces per EN 1504-2.

APPLICATIONS

WATERPROOF 400 is ideal for waterproofing and protecting interior and exterior, professional and residential spaces. Spaces such as production facilities, garage floors, warehouses, bars, fair and expo spaces, stadium and field stands, terraces, rooftops etc. and wherever immediate project completion and turnover is necessary. It is applied directly on ceramic tiles and floors decorated with VITRO HYBRID glass mosaics. Protects QUARTZ DECO decorative quartz floors from sunlight and stress, especially on exterior surfaces. Excellent for the protection of styles created through the 3D COLLECTION

SYSTEM, on floors or walls, especially on small surfaces (2-4m²).

ADVANTAGES

- High resistance to impact, abrasion, and deterioration
- High resistance to UV radiation - does not yellow
- Resistance to extreme weather conditions
- Short cure time
- Excellent durability over time
- Flexible but also hard surface
- Seals and waterproofs joints and capillary cracks
- Excellent resistance to temperature variations
- High resistance to chemicals
- Easy to apply.

USE

1. Surface preparation

The technical specifications and directions of use contained in this technical brochure 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.

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The careful preparation of the substrate in polyurea is critical and necessary for correct final results. The moisture content of the substrate must not exceed 4% and the relative humidity in the application area should be less than 75%.

In any case the substrates must be stable and free of dust, oils and loose materials. Tile joints should be cleaned with BIOCLEAN cleaner or using the GROUT SCRAPER of DUROSTICK.

2. Application

Empty the contents of container B into container A and mix using a low-rpm drill for 1-2 minutes. Mixing should also be done both on the walls as well as at the bottom of the container, in order for the two components to be mixed thoroughly. Continue by applying the mixed product without any dilution, using a short nap roller, polyester roller or brush, in one to two coats, depending on the desired effect. When coating stone carpet floors that are decorated with QUARTZ DECO, it is recommended to first spread the WATERPROOF 400 varnish onto the surface with a trowel or a squeeze, and then finish it with the appropriate roller.

USEFUL TIPS - NOTES

- Avoid applying the product in high temperature or high humidity conditions or if there is a possibility of rain within the next 48 hours, as it is likely to give the surface a white tint.
- Before applying it on walkable wet surfaces, it is recommended to test (preventively) on a part of the surface, to ensure the desired result in terms of its slipperiness. The addition of ANTISLIP ADDITIVE POWDER at a rate of 2% by weight (for tiles) and 4% (for stones), gives a non-slip surface to the floors, even when wet.
- Before its application on glossy surfaces (tiles, granites, epoxy paints), the application of TILE PRIMER is recommended to increase its adhesion, stabilize and protect it from any detachment.
- The working time of polyaspartic products is affected by the ambient temperature. The ideal temperature is between 15°C and 25°C, so that the product has optimal workability and curing time.

- The product applies easily - do not overwork it with the roller.
- Replace the application tools every 25 minutes.
- After hardening, any application residues are removed by mechanical means only.

CLEANING

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

CONSUMPTION

250-350gr/m² per coat, depending on the absor-bency of the surface.

STORAGE

Component A: Store in places protected from sun and frost, for up to 18 months from production date, and if it remains in its original hermetically sealed packaging.

Component B: Store in places protected from sun and frost, for up to 9 months from production date, and if it remains in its original hermetically sealed packaging.

SAFETY DIRECTIONS

The product is classified as harmful. It is recommended to keep away from the reach of children and apply it in well ventilated areas. Before use, refer to the cautions on the product packaging or the Material Safety Data Sheet.

PACKAGING

- Carton box with 6pcs of 750gr each one (A: 381gr, B: 369gr)
- 5kg container (A: 2.54kg, B: 2.46kg)

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TECHNICAL SPECIFICATIONS

Chemical base	Two-component aliphatic polyurea resin
Color	Transparent
Gloss	Gloss
Bulk density of mixture	1.10±0.05kg/lit
Mixing ratio A:B	50,8:49.2 by weight
Pot life	25 minutes at 23°C
Drying time	5 hours at 23°C
Recoating time	12 hours
Foot traffic	After 6 hours at 23°C
Full cure	7 days at 23°C
Application temperature	From +5°C up to +30°C
Temperature resistance	From -30°C up to +80°C
Water absorption coefficient, per EN 1062-3	< 0.01kg/m ² .h ^{0,5} , W3 class
Substrate moisture content	< 4%
Elongation at break per ASTM D 412	> 200%
Tensile strength per ASTM D 412	> 25 N/mm ²
Shore D hardness per ASTM 2240	> 30
Abrasion resistance per ASTM D4060	80mg

V.O.C. (Volatile Organic Compounds): Limit value of maximum content of V.O.C. per EC (Directive 2004/42/EC) for this product (category A/j: 'Two-pack performance coatings', type SB): 500gr/lit (2010). The ready to use product (A+B mixture) contains maximum 50gr/lit V.O.C.

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DoP No.: 151
EN 1504-2
WATERPROOF 400
 Surface protection product
 Coating

Permeability to CO ₂	Sd > 50m
Water vapour permeability	Class I (permeable)
Capillary absorption:	w < 0.1 Kg/m ² .h ^{0.5}
Adhesion (pull of test):	0.8 N/mm ²
Artificial weathering:	Pass
Reaction to fire:	Euroclass F
Dangerous substances comply with 5.3	

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
 E-mail: info@durostick.com

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