

5.1.2 Floor coatings

WATERPROOF 400

 Transparent and flexible two component aliphatic polyurea varnish

TECHNICAL SPECIFICATIONS

Chemical base	2 component aliphatic polyurea
Color	Transparent
Gloss	Satin, gloss
Mixture density	1.04 ± 0.05 kg/lit
Mixing ratio A:B	1:1 by weight
Pot life	40 minutes at 25 °C
Drying time	5 hours at 25 °C
Recoating time	12 hours
Foot traffic	After 6 hours at 25 °C
Full curing time	2 days at 25 °C
Application temperature	From +5 °C to +35 °C
Temperature resistance	From -30 °C to +80 °C
Water absorption coefficient, per EN 1062-3	<0.01 kg/m ² ·h ^{0.5} , class W ₃
Substrate moisture	<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 D 4060	80mg

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

Limit value of maximum content of V.O.C. per EU (Directive 2004/42/EC) for this product (category A/j: 'Two-pack performance coatings', Type SB): 500gr/lit (2010). The ready to use product contains maximum 150gr/lit V.O.C.

CONSUMPTION

250-350gr/m² per coat, depending on the absorbency 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 highly flammable and 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 dox with 6 pcs of 750gr each one (A: 375gr, B: 375gr) 5kg container (A: 2.5kg, B: 2.5kg)

PROPERTIES

High performance, polyaspartic, fast curing, two component aliphatic polyurea clear varnish, with resistance to UV radiation. It presents strong adhesion to any type of sound building surface, while yielding a harmonious balance of flexibility, together with mechanical strength and chemical resistance.

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, terraces, rooftops etc. and wherever immediate project turnover and space completion is necessary.

Apply it directly on ceramic tiles and microcemento in paste form as well as natural stones. Before coating any cementitious microcemento surface and to protect its final color(s), first prime the finish surface using the micromolar stabilizer AQUAFIX of DUROSTICK and once dry continue with the application of the varnish WATERPROOF 400.

It protects the decorative quartz floors QUARTZ DECO from being slippery and from solar radiation. It also **protects epoxy paint systems on exterior surfaces (swimming pools, fountains, floors) from chalking.**

ADVANTAGES

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

USE

1. Surface preparation

The careful preparation of the sub-

strate 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%. All microcemento applications must have matured for at least 7 days prior to the application of the varnish.

In any case, the substrates must be sound and free from dust, oils and loose materials. All the tile joints must be cleaned using the BIOCLEAN cleaner or they must be surface cleaned using the GROUT SCRAPER of DUROSTICK. Existing paints, chalking of epoxy paints, deterioration, fungi and other residues should be removed by sanding or scraping by mechanical means.

2. Application

Empty the content of container B into container A and mix using a low-rpm drill for 2 minutes. The mixing should also be done both on the sides 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 spatula or a squeeze, and then finish it with the appropriate roller.

USEFUL TIPS - NOTES

- Do not apply in high temperature or in high humidity conditions and/or if there is a chance of rain for the next 12 hours.
- The product applies easily - do not overwork it with the roller.
- Replace the application tools every 30 minutes.
- After hardening, any product residues can be removed only by mechanical means.
- After hardening, the product is harmless to health and the environment.

CLEANING

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