

MICRO ART AD 50

TRANSPARENT POLYURETHANE VARNISH WITH SATIN MATT FINISH

1. DESCRIPTION

MICRO ART AD 50 is a product based on modified polyurethane aqueous dispersions.

MICRO ART AD 50 allows obtaining a film with excellent characteristics of transparency, hardness, resistance to water and chemical agents, good adhesion and good resistance to UV without yellowing.

The polyurethane varnish consists of two pre-dosed components: **MICRO ART AD 50 Component A** – varnish and **MICRO ART AD 50 Component B** - hardener.

2. FIELD OF USE

MICRO ART AD 50 is used on indoors and outdoors floors and benches and it is intended to provide protection and finishing on cement-based decorative surfaces.

3. PRODUCT CHARACTERISTICS

GENERAL CHARACTERISTICS	VALUE
Aspect	Colourless liquid, glossy finish
Density	1,05 ± 0,002 kg/m ³
Average theoretical consumption ⁽¹⁾	12 m ² /l/coat
Drying time	8 to 12 h ⁽²⁾
Volatile Organic Compounds Directive 2004/42/CE DL No. 181/2006	EU limit value for this product (cat A/j):140 g/l 2010; The product contains at most 115 g/l

⁽¹⁾ The values are theoretical and do not include additional consumptions as a consequence of porosity of the substrate, surface profile, variation in levelling, etc.

⁽²⁾ These values require constant conditions of air humidity (max. 70%) and temperature (23°C).

4. APPLICATION

a) Substrate preparation

Substrates should be dry, free of dust, release agents, loose or unstable materials, efflorescence, as well as any type of material that affects normal adhesion conditions. The tensile strength of the substrate where it is applied shall not be less than 1,5 N/mm².

Correct cleaning should be carried out by removing all loose and / or friable material, preferably by industrial suction. For applications on other substrates, please consult our Technical Services.

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b) Mixture preparation

Before mixing, Component A should be mechanically stirred by using a low-speed electric mixer (300 ≈ rpm). Subsequently, add all of Component B to Component A and stir continuously for 3 minutes until a homogeneous mixture is obtained.

Prior to the application of *MICRO ART AD 50*, *MICRO ART AD 92* polyurethane sealant should be applied to the substrate, followed by the application of *MICRO ART AD 50*, once the sealant is completely dry.

c) Application

MICRO ART AD 50 is applied in 2 or 3 coats, by using a short hair roll or by spraying.

MICRO ART AD 50 should be evenly distributed with cross-coats. In order to obtain a "seam-free" finish, overlaps of application areas should always take place while it is fresh. Throughout the application, uniformity of consumption should be ensured.

This application procedure must be carried out within the mixture pot life and as soon as possible, depending on the temperature: 20 minutes (30 °C); 40 minutes (10 °C).

The pot life is not detectable in its handling or workability, reason why it is essential to comply with the times described.

The drying period between coats is 8 to 12 h, depending on the weather conditions. Whenever a coat is dry, the surface should be sanded with a worn iron sandpaper. Remove dust after sanding.

After application, all tools and equipment should be washed with water. Once the polyurethane varnish is hardened, it can only be removed mechanically.

Throughout the curing of the product, the area of application should be ventilated to eliminate excess moisture.

d) Restrictions

The consumption of *MICRO ART AD 50* should be respected as previously stated. Lower consumptions may cause roll marks, differences in brightness and uneven surfaces.

The polyurethane varnish should not be applied at room and substrate temperatures below 10 °C, above 30 °C and air relative humidity of more than 70 %.

If temperature is below 10 °C and relative humidity > 70 %, curing is slower, increasing drying times.

The polyurethane varnish should be protected from the action of humidity, condensation and water for at least 7 days (at 20 °C)

In indoor applications, rooms should be ventilated.

e) Complementary Advices

- No product/mixture that has exceeded its time of use should be applied;
- *MICRO ART AD 50 component A* and *MICRO ART AD 50 Component B* may not, under any circumstance, be used separately. The mixture of the components should be completely made;
- Do not add any other products to *MICRO ART AD 50*. It should be applied as it is shown in its original packaging.

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5. PACKAGING AND VALIDITY

Packaging

MICRO ART AD 50 Component A in buckets of 1 litre and 5 litres and **MICRO ART AD 50** Component B in buckets of 0,1 litres and 0,5 litres.

Validity

12 months provided the conditions of the original packaging remain unaltered and in good storage conditions, protected from extreme temperature and humidity.

6. HEALTH AND SAFETY

(DOES NOT REPLACE CONSULTATION OF THE PRODUCT SAFETY DATA SHEET)

- May cause sensitization in contact with skin;
- Avoid contact with skin and eyes;
- Use protective clothing and appropriate gloves;
- If it comes in contact with eyes, rinse immediately and thoroughly with water and seek a specialist advice;
- Keep out of children's reach;
- UE limit value for this product (Cat A/j): 140 g/l (2010). This product contains at most 115 g/l COV, as per directive 2004 /42/EC.

Being the conditions of applying our products out of our reach we do not take responsibility for its misuse. It is the customer's duty to verify the suitability of the product for the intended purpose. In any case, our responsibility is limited to the value of the goods supplied by us. The information contained in the present data sheet may be altered without prior notice. In case of doubt and if you need any further advice please contact our Technical Services.

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