

MICRO ART AD 45

SATIN FINISH ACRYLIC VARNISH

1. DESCRIPTION

MICRO ART AD 45 is a surface protector, of the varnish type, based on a new generation self-reticulating 100% acrylic polymer - nanotechnology.

Its main characteristics are: excellent resistance outdoors, not yellowing; high adhesion to various types of surfaces such as stone, cement substrates, brick, non-gloss ceramic and wear resistance.

MICRO ART AD 45 provides a satin finish protection, where the natural appearance of surfaces is intended to be enhanced.

2. FIELD OF USE

MICRO ART AD 45 is used on vertical or horizontal surfaces indoors and outdoors and it is intended to protect decorative surfaces increasing their durability and facilitating maintenance operations.

MICRO ART AD 45 is applied as a surface protector in the **MICRO ART** system. It may be used for the same purpose in **SCALA** decorative floors, as well as in architectural elements made with **BETÃO-S ESTRUTURAL BRANCO** and **BETÃO-S ESTRUTURAL CINZA**.

MICRO ART AD 45 is applicable on cementitious substrates or stone elements both indoors and outdoors.

3. PRODUCT CHARACTERISTICS

GENERAL CHARACTERISTICS	VALUE
Aspect	Colourless Liquid
Finish	Satin
Density	1,03 ± 0,002 kg/m ³
Average theoretical consumption (1)	12 m ² /kg/coat
Drying time between coats	6 h ⁽²⁾
Volatile Organic Compounds Directive 2004/42/CE DL No. 181/2006	EU limit value for this product (cat A/c):40 g/l 2010; The product contains at most 20 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).

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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.

For greater durability of the solution, surfaces should be pre-treated with the surface sealant, *MICRO ART AD 91*, which should be dry before application of *MICRO ART AD 45*.

b) Application

Prior to application, the product should be stirred until it is completely homogenised.

Apply over the substrate by using a sort hair or a microfiber roll.

When applying, the applied areas should be consecutively overlapped while they are fresh. Surfaces should be completely dry for at least 6 h.

It is recommended to apply a minimum of 3 to 4 coats.

After application and drying of each layer, sand the surface so as to remove any irregularities. In this case, it is recommended to use a worn iron sandpaper in order to obtain a smoother texture free of roughness. Vacuum thoroughly before applying the next coat.

c) Maintenance

For the surface to maintain its appearance it is necessary to prepare a suitable maintenance plan using neutral pH detergents, waxes, such as *MICRO ART AD 47* and appropriate cleaning equipment. Any spillage should be removed immediately.

d) Restrictions

The consumption of *MICRO ART AD 45* should be respected as previously stated, so as to guarantee good performance. Lower consumptions may cause roll marks, differences in brightness and uneven surfaces.

MICRO ART AD 45 should not be applied at room and substrate temperatures below 10 °C and 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.

In dry weather or in strong winds, exterior surfaces should be protected to minimize the direct action of wind.

Application of the product should not take place in case of rain or high humidity or if rain is expected within 24 hours of application. These conditions may compromise the normal behaviour of the products.

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e) Complementary Advices

Do not add any other products to **MICRO ART AD 45**. It should be applied as it is shown in its original packaging.

5. PACKAGING AND VALIDITY

Packaging

Buckets of 1 and 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/c): 40 g/l (2010). This product contains at most 20 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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