

# MICRO ART MC 01

LEVELLING AND RUSTIC FINISH MORTAR IN THE MICRO ART SYSTEM

## 1. DESCRIPTION

**MICRO ART MC 01** is a cement-based hydraulic mortar modified with organic and aerial binders. It also has special additives that guarantee resistance to water and cracking. It is a two-component product, **MICRO ART MC 01 component A** and **MICRO ART MC 01 component B**.

**MICRO ART MC 01** is available in various colours (see catalogue).

## 2. FIELD OF USE

**MICRO ART MC 01** is an integral part of the **MICRO ART** decorative system, corresponding to the substrate levelling stage. It may also be used as finishing mortar, when a rustic finish is to be obtained.

**MICRO ART MC 01** may be used on indoors and outdoors floors and walls. It allows application on various types of substrates, such as: cement substrates, old ceramic tiles, plasterboard, preferably waterproof MDF, maritime plywood, marble, wood and shower trays.

## 3. PRODUCT CHARACTERISTICS

GENERAL CHARACTERISTICS	VALUE
Colours	Available by catalogue
Final aspect	Matt
Theoretical consumption <sup>(1)</sup>	1,5 a 1,8 kg/m <sup>2</sup> /coat
Density	1,45 ± 0,001 kg/m <sup>3</sup>
Drying time between layers	4 h <sup>(2)</sup>
Mixture pot-life (Component A+ Component B)	10 °C – 5 h 20 °C – 4 h 30 °C – 3 h
Volatile Organic Compounds Directive 2004/42/CE DL No. 181/2006	EU limit value for this product (cat A/j):140 g/l 2010; Component A contains at most < 1 g/l and component B contains at most 30 g/

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

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

# MICRO ART MC 01

LEVELLING AND RUSTIC FINISH MORTAR IN THE MICRO ART SYSTEM

## 4. APPLICATION

### a) Substrate preparation

#### General conditions

Substrates should be dry, hardened, cohesive and free of dust or other residues (oils, water repellents, varnishes, greases, etc.) that affect adhesion conditions.

Substrates should be flat and levelled, this characteristic being essential for good performance of decorative coating. The **MICRO ART** system is applied in a total 3 to 5 mm thickness and so this product shall not solve any substrate planimetry problem.

**MICRO ART MC 01** should not be applied to surfaces with humidity, if any, prior to the application of the system, its origin should be removed or treated. In any case, it is recommended to use a moisture meter in order to verify that the moisture present in the substrate does not exceed 10%.

Prior to the application of **MICRO ART MC 01**, adequately protect the surrounding area surfaces so as to avoid staining, given the difficulty in removing the material on various surfaces.

#### Renovation

In renovation operations, do not apply to non-adherent mortars/concrete or to loose ceramics. In such cases, all unstable or non-adherent surfaces should be removed and stabilized and adjusted with **REDUR MAX FORCE** in case of walls or with **PLAN LEVEL 315** on floors.

In the case of application on highly absorbent mortars and concretes, it is recommended to use the **MICRO ART AD 21** primer.

On fissured substrates, repairs must be carried out.

If surfaces are treated with varnishes, paints or other types of resins, they must be removed by sanding or by mechanical means. In these cases, the use of the absorption regulator, **MICRO ART AD 21** is recommended.

In new surfaces of marine plywood, it is recommended to pre-apply **MICRO ART AD 21**. In case of old MDF or plasterboard surfaces, the need for application of the primer should be assessed if it is found with residues of other materials.

If kitchen counters, shower trays, bathtubs or bathroom furniture, are intended to be coated, they should have adequate waterproofing. **MICRO ART MC 01** is water resistant; however, this product should not be regarded as a waterproof coating.

**MICRO ART MC 01** should not be applied on wood or parquet flooring; in these cases they should be removed before applying the system.

After applying the **MICRO ART AD 21** adhesion primer, wait until it is dry to the touch for at least 3 hours before applying **MICRO ART MC 01**.

# MICRO ART MC 01

LEVELLING AND RUSTIC FINISH MORTAR IN THE MICRO ART SYSTEM

## b) Mortar preparation

Stir component B well. Pour all the contents into the bucket. Gradually add all of component A while mixing the components with a low-speed electric stirrer (≈ 300 rpm). Pause the mixture for about two minutes and re-mix until a smooth, lump-free mixture is obtained.

Mixing of components A and B should be carried out in its entirety, and packaging should not be divided by several kneadings.

## c) Application

In new construction walls, **MICRO ART MC 01** may be applied by using a trowel, in layers with thickness never less than 1 mm.

On floors or on ceramic tiles, **MICRO ART MC 01** should always be applied with a 3mm notched trowel so as to form a uniform distance from the substrate for the anti-alkaline **MICRO ART REDE 90** mesh to be inserted between the first and second layers of **MICRO ART MC 01**.

The application scheme depends on the type / state of substrate and the type of finish desired. Therefore, the following schemes are recommended:

GENERIC APPLICATION SCHEME					
Texture	Substrates	No. of minimum layers <sup>(3)</sup>		Mesh	Thick.(mm)
		MC 01	MC 02		
Rustic	Wall <sup>(1)</sup>	3	-	-	3 <sup>(4)</sup>
	Ceramic c. <sup>(2)</sup>	4	-	Yes	5 <sup>(4)</sup>
	Floor		-	Yes	
Smooth	Wall	1	2	-	3 <sup>(4)</sup>
	Ceramic c. <sup>(1)</sup>	2	2	Yes	5 <sup>(4)</sup>
	Floor	2	2	Yes	

<sup>(1)</sup> Plaster, waterproof plasterboard, water-repellent MDF and render.

<sup>(2)</sup> Ceramic coating, Wall or floor

<sup>(3)</sup> The number of layers is indicative, and in specific cases it may be necessary to apply a larger number of layers to obtain the desired finish

<sup>(4)</sup> Total thickness of the MICRO ART system

To obtain a quality finish, application should be cared for from its base, each layer being worked as if it were the final one, eliminating burrs and sanding between layers to eliminate any irregularities.

Except for the layer where the mesh was inserted, after each application, sanding should be carried out to eliminate small imperfections. At this stage, a 100-iron sandpaper may be used, about 4 hours after the layer application (air humidity conditions <70% and temperature 20°C).

To obtain a smooth finish, apply **MICRO ART MC 02**, which may take place after a drying period of at least 4 hours of **MICRO ART MC 01**.

# MICRO ART MC 01

LEVELLING AND RUSTIC FINISH MORTAR IN THE MICRO ART SYSTEM

In case of rustic finish, in the last layer, a spatula should be used in all directions, in wavy lines so as not to show the application joints. If any anomalies arise in the application of the last layer, patches are not recommended. In such a situation, you should re-sand the entire surface, clean and reapply a new layer of **MICRO ART MC 01**.

## d) Surface protectors

For rustic finishes, **MICRO ART MC 01** should be exclusively applied. In this case, the application of a surface protector is mandatory. For its application, the system should be dry, with a cure time of 24 hours to 7 days.

**MICRO ART MC 01** is suitable for receiving surface protectors of the type: **MICRO ART AD 45** glossy acrylic varnish; **MICRO ART AD 46** satin acrylic varnish; **MICRO ART AD 47** concentrated wax or **MICRO ART AD 50** polyurethane varnish.

Prior to application of **MICRO ART AD 45** or **MICRO ART AD 46** finishes, **MICRO ART AD 91** sealant should always be applied.

## e) Restrictions

**MICRO ART MC 01** should not be applied at room and substrate temperatures below 10 °C and above 30 °C and air relative humidity of more than 70%.

In hot and/or dry weather or when substrates are directly exposed to sun rays, use shading mechanisms, substrate should be previously wetted and application should only be started when it is dry.

If temperature is below 10 °C and relative humidity > 70 %, the curing of **MICRO ART MC 01** is slower, increasing drying times.

Application in the presence of strong winds may cause cracking of the system. In such case, walls should be protected so as to minimize the effects of wind action.

In indoor applications, areas should be ventilated.

Because it is a high-performance architectural finish, application of this coating should be done only by specialized teams.

Because it is a coating without joints, the work should be coordinated to avoid interruptions. It shall be necessary to determine where to start the work (at the point opposite the exit), and also to calculate the number of applicators required for each work front.

Ensure that during application the coating is not dirty or stained, always wearing clean footwear as well as avoiding water, sweat or any other type of liquid that may stain the surface.

## f) Complementary Advices

- No mortar that has exceeded its open time should be applied. Do not soften mortars by adding water or any other component after preparation;
- Component A and component B of **MICRO ART MC 01** may not under any circumstances be used separately;
- Do not add any other products to the mortar. **MICRO ART MC 01** should be applied as it is shown in its original packaging.

# MICRO ART MC 01

LEVELLING AND RUSTIC FINISH MORTAR IN THE MICRO ART SYSTEM

## 5. PACKAGING AND VALIDITY

### Packaging

3 and 12 kg buckets, with the corresponding component A and component B.

### 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)

- Irritating to eyes, respiratory system and skin;
- May cause sensitization in contact with skin;
- Do not breathe dust;
- Avoid contact with skin and eyes;
- If it comes in contact with eyes, rinse immediately and thoroughly with water and seek a specialist advice;
- Use protective clothing and appropriate gloves;
- Keep out of children's reach.

*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.*

*Revision of January 2019  
FT.05001.01 EN*