

## Smooth Finish Mortar/Local Mix Smooth Finish Mortar

### Presentation

#### Area of use:

Decorative coating for interior and exterior use (floors, walls, bathrooms, work surfaces, objects, etc.). Applied in 2 mm thickness, the coating offers excellent mechanical, adhesive and waterproofing qualities.

#### Composition:

Two component hydraulic mortar (component A: powder and component B: liquid)

#### Properties:

See product specification sheet

#### Packaging:

Smooth Finish Mortar kits: 1 kg, 4.94 kg, 12.35 kg and 24.7 kg (2 component). Local Mix Smooth Finish Mortar kits: 24.7 kg (3 component)

### Application

#### Substrate and substrate preparation:

Sound concretes and concrete derivatives, cellular concrete, tiling, plasterboard, bricks, breeze blocks, wood derivatives (chipboard, MDF, plywood, etc.). Do not apply to timber, supple wood floors, plastics or textiles. Substrates should be sound, dry, rigid, stable and clean (free from oily stains and cloudy/milky surface finishes). Substrates should conform to current building regulations. It is important that the substrate is crack free and has good cohesion. Active cracks and expansion joints should be left open and should not be covered by the finishing mortar. They should be treated using a flexible joint after the smooth finish mortar application.

Product should not be applied to exterior tiling and paving stones.

The substrate should be insulated from all possible rising damp from beneath as well as from the edges.

The diversity of the substrates and their basic states require specific preparations as well as the possible use of specific preparation products. Contact our technicians for more details.

For applications in rooms subject to high humidity levels such as bathrooms, waterproofing and sealing should be carried out before product application. All joints between different materials should be treated using flexible waterproof sealant.

For all shower applications, the substrate must have a slope >2%.

#### Precautions and procedures:

In order to guarantee colour consistency of all applications for a given site, use identical batches of component A as well as identical batches of concentrate (Local Mix).

The concentrates (Local Mix) contain variable proportions of pigments, materials and additives in order to obtain the desired end product finish. Concentrates should never be mixed together.

The base products (Local Mix) are "semi-finished" materials. It is essential to add concentrate to the base products in order to obtain a stable formula and the full properties of Smooth Finish Mortar. Even for white coloured mortar, the addition of a white concentrate of the corresponding colour is necessary.

Use of the base product alone, without the addition of the concentrate (local Mix), modifies the nature of the product and reduces the chemical and mechanical performance of the system.

Use of the product should always involve the precise mixture of the 3 components.

### **Smooth Finish Mortar kit preparation:**

Place a clean container on a set of scales and set to zero. Weigh precisely 0.76 kg of component B. Then add component A until the scales read 4.00 kg (addition of 3.24 kg of component A). For the preparation of all other quantities, please refer to the designated weight table.

It is strongly recommended to prepare only small quantities at a time. Do not prepare all of the product in one go if the number of persons applying the product is insufficient or they are inexperienced or if the weather is hot.

Mix by hand or with an electric mixer (at very slow speed) until the product is evenly mixed, with no lumps.

Weight table:

<b>Component B (liquid) in kg</b>	<b>Component A (Powder) in kg</b>	<b>Product ready for application in kg</b>
0.19	0.81	1.00
0.38	1.62	2.00
0.57	2.43	3.00
<b>Component B (liquid) in kg</b>	<b>Component A (Powder) in kg</b>	<b>Product ready for application in kg</b>
0.76	3.24	4.00
1.14	4.86	6.00
1.52	6.48	8.00
1.90	8.10	10.00
2.85	12.15	15.00
3.81	16.19	20.00
4.70	20.00	24.70

Note: Never add water

The performance of the product relies on a strict adherence to the mixing proportions of components A and B as listed to avoid a reduction in mechanical strength and surface hardness.

### **Smooth Finish Mortar Local Mix kit preparation:**

Dry mix (allows the kit to be reused) or wet mix (complete use of the kit in one go).

#### **Dry mix:**

In the case of a dry mix, always mix all of the base product and all of the concentrate together before dividing the product for reuse at a later date.

- Roll the container of base product in order to aerate and uncompact the product
- Open the base product container and create a slight hollow in the centre of the product
- Shake and open the pot of concentrate
- Pour the concentrate into the hollow in the centre of the base product
- Block the container between your feet and gently mix the base product and concentrate at low speed (use of a dedicated product mixer is recommended, please contact us for prices)
- Plunge the mixer into the mix and progressively raise the mixing speed
- Continue mixing, making vertical, lateral and slanted movements in order to thoroughly mix the contents. Pay careful attention to the edges and the bottom of the container in order to ensure all of the product is well mixed. For the first mixtures, we recommend pouring the mixed contents into a container of a similar size in order to make sure the mixture is fully mixed. Remix if necessary. **The product mixing process should take at least 1 minute.**

- Add component B (liquid) to the quantity of prepared powder: mixture of base product + concentrate (component A) according to indications in the "Smooth Finish Mortar preparation" section.

Note: the action of mixing the dry materials together does not alter their shelf life as long as the containers (base product and concentrate) are properly closed and stored under the recommended conditions.

**Wet mix:**

- Pour the liquid part (component B) into a clean container
- Shake and open the pot of concentrate
- Pour the concentrate into the liquid
- Block the container between your feet and mix at low speed until the liquid and the concentrate are thoroughly mixed

Never add water

**Application:**

Before application, check the moisture level of the substrate (4% maximum humidity).

Temperature	>5°C and <25°C (ideal temperature: >15°C and <20°C)
Relative humidity	>30% and <80%
Protect from wind, direct sunlight, rain and frost, as well as from the surrounding fauna and flora during the application and drying process	

**Application tools:**

Plastering trowel, finishing trowel, wide plastering knife

**Application method:**

Apply an initial layer approximately 2 mm thick with a plastering trowel. In order to ensure the correct thickness, it is also possible to apply the first layer using a 2 mm notched tiling trowel.

This first layer determines the amount of product applied as well as the desired material finish. It is therefore important to apply the product evenly without spreading it too thinly, making crosswise movements.

Before applying the second layer, it is possible to sand the surface (80, 100 or 120 grain sandpaper) or to scrape off any "peaks" using a plastering knife. Then vacuum clean.

Apply a thin second layer. This second layer determines the finished aspect of the coating and enables the coating to be smoothed. The second layer should be applied with a plastering trowel in the same manner as the first layer. It is important to note that stainless steel application tools can leave dark marks (especially on light colours). A plastic tool may be preferable. The second layer can also be levelled using a sponge.

After 24 hours of drying (at 20°C), sand the surface (80 grain, then 100, then 120) using an orbital sander (or a single-brush floor sander) then vacuum using a vacuum cleaner. Edges should be sanded by hand.

The degree of sanding will determine the surface finish (granular or smooth) and will highlight the material finish. If the surface finish is considered satisfactory, proceed to the finishing coats.

For an interior coat apply 2 layers of pore blocker. After 24 hours of drying, apply 2 layers of MA's Varnish or 3 layers of MA's Fixer without a pore blocker. For certain floors, 2 layers of Carnauba Wax can be applied instead of varnish or fixer.

For an exterior coat, apply 2 coats of MA's oil-repellent impregnator.

**Consumption:**

Floors, shower walls, work surfaces, furniture...	4 kg/m <sup>2</sup> for 2 layers	from 0.7 mm to 2 mm per layer
Walls (except heavy use walls)	2.5 kg/m <sup>2</sup> for 2 layers	

**Drying times at 20°C with 60% relative humidity:**

Application time	25 to 30 minutes
Dry to the touch	4 hours
Between layers	24 hours minimum
Fully dry	2 days, however full mechanical resistance after 28 days

**Tool cleaning:**

Water

**Technical features****Product features:**

Component A: coloured powder; Component B: white liquid; Mix: thixotropic mortar

**Density A+B (at 20°C):** Approximately 2.1**Flash point:** Not applicable**Additional data:** see **Ma's Smooth Finish Mortar performance certificate****Maintenance**

Maintenance and regular cleaning should be done using water and MA's cleaning products. We recommend cleaning marks and stains within 12 hours.

Do not use acid, alkaline or solvent based detergents.

As stains and scratches are more visible on very clear or very dark colours, we recommend more frequent cleaning for these colours (please refer to the maintenance guide).

Leaving stagnant water on varnishes and fixatives is not recommended as these products are not designed to be waterproof (e.g. flower pots, wet sponges, wet linen...).

It is also recommended that surfaces be protected from regular friction and impacts (casters, furniture legs, shoes with studded soles, stones, pointed, sharp and blunt objects, etc.) in order to avoid possible marks.

Application of MA's High-Resistance Wax, on top of the varnish, facilitates floor cleaning and restoration. It also offers protection from micro scratches on high use surfaces.

**Storage and safety**

12 months in the original, unopened packaging, away from direct sunlight and frost, at a temperature between +5° and 35°C, ideally between 15 and 20°C. Check the use by date on the packaging before use. Once opened the product should be used within 7 days.

Use appropriate personal safety equipment as described in the Safety Information Sheet. For further information concerning safety, please consult the Safety Information Sheet.

*The information given in this technical sheet is an indication only and cannot be used to hold Marius Aurenti in any way responsible. Please carry out product tests on a small area before proceeding.  
For all further information concerning product use and security, please refer to the Safety Information Sheet.*