

INTOMAP MONO

Single layer white plaster, water repellent, made from cement, lime, white marble aggregate of graded granulometry and selected additives for internal and external use



WHERE TO USE

Single-layer plaster that replaces the base coat and the 'marble' final coat, both internally and externally

Some application examples

- Single layer white plaster of cement-lime that is applied manually or with a mortar machine on interior and exterior walls of buildings for domestic, commercial or hotel use

TECHNICAL CHARACTERISTICS

Intomap Mono is a one component pre-mixed mortar, made of white cement, lime, graded white marble aggregates and special powder additives according to a formula developed in MAPEI research laboratories. Thanks to its special composition, **Intomap Mono**, when mixed with water, becomes a ready-to-use mortar with excellent workability and durability that has good adhesion to surfaces and can be applied either manually or with a mortar machine on most types of substrates found in construction. Prior to application of the product, it is always recommended to treat the surface with a first coat layer of **Intomap S Plus** to form a "rough" adhesion surface and to adjust the absorbency of the substrate.

According to the EN 998-1 specification, **Intomap Mono** is classified as OC "one layer mortar for exterior plasters, water repellent", category CSII. It bears CE marking.

RECOMMENDATIONS

- Do not apply **Intomap Mono** in thickness greater than 20 mm, for greater thickness use **Intomap Base**.
- Do not apply **Intomap Mono** if temperatures are below + 5 ° C or above + 35 ° C.
- If you apply **Intomap Mono** on absorbent surfaces in hot weather or air, it is recommended that you thoroughly wet the substrate to saturation before applying the product.
- Do not add cement, lime or aggregate to **Intomap Mono**.
- Do not apply **Intomap Mono** on painted surfaces.
- Do not use **Intomap Mono** on gypsum or anhydride surfaces unless **Primer G** primer has been applied.
- Do not mix again and do not add water again to a mixture that has started to set in the container.
- Given that the modern concept of thermal insulation of buildings requires the application of certified external thermal insulation systems (ETICS), the application of **Intomap Mono** on thermal insulation boards (expanded or extruded polystyrene, mineral wool, etc.) is not recommended. Use Mapei Certified Exterior Thermal Insulation Systems **Mapetherm System** based on **Mapetherm AR1**.
- Do not apply **Intomap Mono** on thermal insulation bricks or blocks, as well as on aerated concrete or lightweight concrete elements, use **Porocol**.

- Do not use **Intomap Mono** as a dehumidifying plaster on masonry with rising humidity. Use products from the **Mape-Antique** or **PoroMap** series.
- Do not use **Intomap Mono** in strong winds or if the surfaces are exposed to strong sunlight

APPLICATION PROCEDURE

TECHNICAL INFORMATION FOR THE APPLICATION

Composition of the mix:	100 kg Intomap Mono 19-21 kg of water
Permissible application temperature:	surrounding and substrate temperature from +5°C to +35°C
Pot life of mixture:	approx. 30 min (+20°C)
Minimum application thickness:	10 mm
Maximum application thickness in one layer:	20 mm
Waiting time before finishing:	at least 24 hours (in good weather).

Preparing the substrate

Intomap Mono can be applied to concrete and new or old brick or mixed masonry, having first been preceded by a first coat layer of **Intomap S Plus**. Application surfaces must be clean and healthy, free of crushed areas, dust or dirt. Wet the substrate to saturation before applying **Intomap Mono**.

Wait until any excess water has evaporated so that the substrate is saturated but the surface is dry (s.s.d. condition). If necessary, use compressed air to remove excess water. It is also recommended to place vertical guides on the walls to be plastered to help ensure the flatness of the final application surface.

Preparing the mortar for manual application

- Pour the minimum amount of mixing water required into a suitable clean container (approximately 4.75 liters per 25 kg bag) and slowly add the **Intomap Mono** in a continuous flow with a mechanical mixer
- Mix for about 2 minutes and check that the mortar is well mixed, uniform and without lumps and remove any dust that has stuck to the sides or bottom of the container.
- Add more water to a total of about 5.25 liters per bag of product, including water added at the beginning of mixing
- Mix again for another 2-3 minutes to form a uniform, 'plastic', thixotropic mixture. Mixing should be done with the drill at low speed to avoid air entrapment in the mortar. The **Intomap Mono** remains workable for about 30 minutes at + 20 ° C.
- Where appropriate, the product may be mixed with Planicrete latex to improve its characteristics.

Preparing the mortar for application with a plaster machine

The mortar can be prepared using a continuous feed mortar machine, such as PFT, M-Tec, Putzmeister, Turbosol, Imer or similar. Pour the product from the **Intomap Mono** bags into the hopper and adjust the flow meter, depending on the type of machine used, to produce a "plastic" homogeneous mortar (approximately 19 liters of water per 100 kg of powder).

The instructions for the preparation of the mortar to be used for the creation of samples for laboratory tests are reported in the "Technical Data" table.

Application

If a first coat layer of **Intomap S Plus** mixed with **Planicrete**, 5mm thick has been applied initially, wait until it gets the first strengths.

Apply a single layer of **Intomap Mono** up to 20mm thick, starting from the bottom of the wall and working upwards.

On all substrate surfaces that need additional reinforcement, such as at points of change in the nature of material (brick-concrete, etc.) as well as on all electrical or plumbing duct crossings, the **Intomap Mono** must be reinforced with the special MAPEI **Intomap Net** reinforcement grid.

ATTENTION: *The grid must be placed after 2/3 of the thickness of the layer of **Intomap Mono** has been applied by "immersion".*

In all the inner and outer corners of the walls integrate in the application of **Intomap Mono** corner beds of suitable type by MAPEI.

If the product is applied by spraying, we recommend holding the nozzle at a distance of 20cm from the wall, so that a uniform layer is formed.

Remove the vertical guides that were originally mounted on the wall and fill the gaps with Intomap Mono. Finish the surface of the plaster with an expanded polystyrene sander or a hard sponge to form a smooth final result shortly after application, depending on the ambient temperature and weather conditions. Before using colored paint products for decoration and surface protection (with products from the **Silexcolor**, **Silancolor**, **Elastocolor**, **Quarzolite** or **Colorite** series) or installing wallpaper, Intomap Mono must be fully cured in good weather conditions (28 days).

CAUTION: Always use the appropriate Mapei primer depending on the nature and type of paint chosen.

INSTRUCTIONS FOR PREPARATION AND APPLICATION

- Use only **Intomap Mono** bags stored on their original pallets in an indoor, well- protected area.
- In hot weather, store the product in a cool place before use and use cold water to prepare the mixture.
- In cold weather, store the product in a frost-protected area at a temperature of at least + 20 ° C and use lukewarm water to prepare the mixture.
- After applying and smoothing the mortar, especially in heat or when it is windy, it is recommended to apply intomap maturation treatment of **Intomap Mono** to prevent rapid evaporation of the mixing water and consequently the appearance of surface cracks or burns. To avoid such problems, it is recommended to carefully wet the mortar by spraying the surface with water 8-12 hours after application and then repeating this process every 3-4 hours for the next 48 hours.

Cleaning

Rinse the mortar from the tools as well as the plaster machine hoses with water before it hardens. Once hardened, cleaning is much more difficult, and it must be removed mechanically.

CONSUMPTION

Approximately 14kg/m² for a thickness of 1 cm.

PACKAGING

25 kg bags.

STORAGE

Intomap Mono may be stored for up to 12 months in its original packaging in a dry place.

PRODUCT IDENTITY

Definition according to EN 998-1

OC

Consistency:

Powder

Colour:

White

Maximum size of aggregate:

< 3 mm

TECHNICAL INFORMATION FOR THE PREPARATION OF THE PRODUCT

Composition of the mix:

100 parts by weight of **Intomap Mono** with 19% of water.

Preparation of mix:

Mixing according to EN 1015-2

CHARACTERISTICS OF FRESH MIX (at +20°C - 50% R.H.)

Colour of the mix:

White

Consistency of mix:

Tixotropic

Density of the mix:

1700 kg/m²

FINAL PERFORMANCES

Sample preparation and curing condition according to the standards.

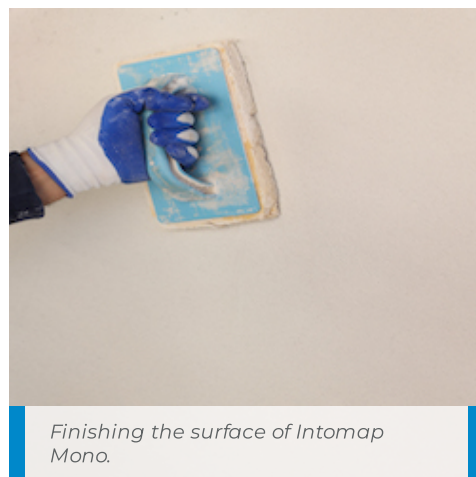
Performance characteristics	Test method	Requirements EN 998-1	Product performance
Compressive strength:	EN 1015-11	CS I (from 0,4 to 2,5 N/mm ²) CS II (from 1,5 to 5,0 N/mm ²) CS III (from 3,5 to 7,5 N/mm ²) CS IV (≥ 6 N/mm ²)	Category CS II
Adhesion after weathering cycles:	EN 1015-21	Declared value and failure type (FP)	≥ 0,4 N/mm ² (FP) = B
Water absorption due to capillary action:	EN 1015-18	≤ 1 ml/cm ² after 48 hours	≤ 1,0 ml/cm ² after 48 hours
Water-vapour permeability coefficient (μ):	EN 1015-19	μ ≤ 15	μ ≤ 12
Thermal conductivity (λ_{10,dry}):	EN 1745	Declared tabulated value	0,61 W/m·K (P = 50%)
Reaction to fire:	EN 13501-1	Euroclass	A1



Application of Intomap Mono with mortar machine.



Application with a smooth edged bar.



Finishing the surface of Intomap Mono.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Instructions for the safe use of our products can be found on the latest version of the SDS available from our website www.mapei.com

PRODUCT FOR PROFESSIONAL USE.

WARNING

Although the technical details and recommendations contained in this MTDS correspond to our best knowledge and experience, all of the above information should, in any case, be taken as mere indicative and subject to confirmation after long-term practical application; For this reason, anyone intending to use the product must ensure in advance that it is suitable for the intended use. In any case, only the user is fully responsible for any consequences arising from the use of the product.

Please refer to the current version of the Technical Data Sheet, available from our website www.mapei.com

STATEMENT OF DISCLAIMER

It is pointed out that, in any case, in addition to the necessary observance and application of all the above instructions, Under given conditions of substrates and environment all plaster coating products may show cracks. The company hereby disclaims any responsibility regarding the appearance of cracks on the surface of

the plasters and does not accept any claim as a consequence beyond the obligations arising from the CE marking of the specific products.

Please refer to the current version of the Technical Data Sheet, available from our website www.mapei.com

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The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement or replace requirements per the TDS in force at the time of the MAPEI product installation. The most up-to-date TDS can be downloaded from our website www.mapei.com.

ANY ALTERATION TO THE WORDING OR REQUIREMENTS CONTAINED OR DERIVED FROM THIS TDS EXCLUDES THE RESPONSIBILITY OF MAPEI.

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