

MORCEMCRIL® FLEXIBLE

Elastic ,synthetic-mineral rendering



DESCRIPTION

Synthetic mineral render with highly elastic properties, presented in paste form, suitable for waterproofing, protection, and decoration of all types of façades and interior walls. Formulated with additives capable of preventing and delaying the appearance of moulds and algae. Decorative render mortar for the Traditem External Thermal Insulation system (ETICS).

TECHNICAL CHARACTERISTICS

Product based on acrylic resins with internal cross-linking and UV cross-linking, fillers and mineral pigments, additives, and water.

ADVANTAGES AND USES

- Product approved by EAD-040083-00-0404- ETE No. 07/0054.
- Very elastic (Provides elasticity to the entire system)
- Self-cleaning effect.
- Textures: thick, normal, and thin Weather resistant.
- Mould and algae resistant (with encapsulated actives).
- Non-flammable.
- Permeable to water vapour.
- Crack bridging of up to 2 mm.
- Fast application.
- Float, drop or drip edge finish.
- Suitable for most substrates.
- Resistant to open air.
- Resistant to ageing, open environments, and UV rays resistant.
- Excellent adhesion on traditional substrates.
- Washable.

This product has a protection against fungus, mould and algae which provides a long-lasting preventive and retardant effect although not permanent. The duration of this affectation depends on the exposure to humidity and the concentration of spores in the area, which create especially favourable conditions for the growth of micro-organisms. Therefore, periodic preventive maintenance treatment is recommended.

SUITABLE SUBSTRATES

- Compatible with mineral mortar substrates, concrete, one-coat mortar, gypsum, plasterboard, and painted substrates.
- Not compatible with fresh lime plasters, resins or varnishes, distemper paints, lime, or silicate paints.
- Traditem external thermal insulation system prepared for the execution of the final decorative finish.
- Substrates must be clean, free from dust, greases, old paint, oils, fungus, mould, and any other kind of product.
- On surfaces with loose particles, apply FIJAMOR primer beforehand.
- Apply a FONDO MORCEMCRIL coat before applying MORCEMCRIL MOSAICO.

DECORATIVE PLASTERS

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APPLICATION PROCEDURE

- Shake until getting a perfect mixture.
- The product is already ready to use, and it should be applied with a stainless-steel trowel or gun.
- If applied manually, you can adjust its consistency and workability by adding water, up to a maximum of 250 ml per 20 kg container. If applied with a spray gun, you can add water up to a maximum of 1 litre per 20 kg container to adjust the consistency and workability.
- This adjustment will depend on the pump to be used. Stir the product properly just before applying it.
- In the case of manual application, spread the product evenly using a steel trowel across the entire surface, removing any excess material above the aggregate thickness.
- Once the product has been spread over the substrate proceed to float the material.
- The surface shall be floated using a plastic trowel or a polyurethane float, floating regularly preferably with the infinite movement technique to obtain an even textured surface.
- Work evenly and uninterruptedly.
- The choice of tool affects the roughness and structure of the surface, so the same type should always be used on a construction site.
- To obtain a uniform structure, it is crucial to make sure that the same person structures adjacent surfaces.
- Due to the natural aggregates and granules in the product, slight colour variations between different batches may occur.
- Adjacent surfaces should use product from the same batch to ensure consistency.
- For mechanical spraying of the product, the nozzle diameter should be chosen based on the product's particle size distribution.
- During spraying, exceptional care must be taken to apply the product evenly, avoiding overlaps, joints, and uneven loading due to application.
- Cleaning of the tools will be conducted with abundant water immediately after being used. Any dried particles should be removed with solvents such as turpentine.

RECOMMENDATIONS

- Do not apply under 5°C nor above 30°C, under direct sun light, rain, or heating risk.
- Do not apply on floors or inclined surfaces where the exposed face is facing upwards.
- Protect the upper surfaces of the render from the penetration of rainwater.
- To ensure colour uniformity, it is recommended to request the total amount of product needed in a single supply. In any case, do not mix different manufacturing batches in one working area.
- Pay special attention to environmental temperature changes, humidity, wind, etc. These factors influence the drying process and the workability of the product, potentially causing differences in the final appearance of the application.
- In machine spraying application, maintain consistent pressure, angle of projection, and distance from the substrate to avoid changes in the final appearance of the product.
- In machine spraying application, it is recommended to apply multiple coats until achieving the desired coverage and thickness.
- Protect the surrounding area of the surface to be applied and clean any splashes with water before the product dries or hardens. Pay special attention to environmental temperature changes, humidity, wind, etc. These factors influence the drying process and the workability of the product, potentially causing differences in the final appearance of the application.

PACKAGING AND STORAGE

- 20 Kg containers (White and colour range).
- 12 litres containers (Tintometer system).

Storage: Store up to two years in its original closed packaging. In fresh and dry places, away from open air and direct sun light. Avoid extreme weather conditions (not lower to 5°C nor above 35°C).

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TECHNICAL DATA

(Statistical data obtained under standard conditions)

Colour	-	White and colour range
Finish	EN 1062-1	Matte
Density	IN ISO 2811- 1	1,90 ± 0,05 Kg/l
pH	-	8,0 ± 0,1
Viscosity	EN ISO 2555	330 ± 100 dPas (50 rpm; Spindle R7)
Theoretical performance	UNE 48282	2 to 3 Kg/m ² for 2 mm thickness.
Drying time to touch	UNE 48301	30 minutes
Total drying time	UNE 48301	2 hours
Solvent	-	Water
Wet rub resistance	EN ISO 11998	Type 2
Adhesion to concrete	EN 1542	≥ 1,5 N/mm ²
Water absorption	EN 1062-3	Low (W3)
Permeability to water vapour(Sd)	EN ISO 7783	Medium 0,2-1,0 m
Thermal conductivity (λ)	EN 1745	0,83-0,93 W/mK
Reaction to fire	-	A2 s1 d0
Total consumption	Medium texture	1.9±0.2 Kg/m ²

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