

MD-202

Just add Water

MD-202

Suitable for spray render and pump machines or manual applications.
Mechanical strengths corresponding to lime mortars.
High water vapour permeability. Allows the wall to breathe.
Great plasticity.
Compatible with old masonry brickworks/walls.
Applicable directly to the building enclosure.



MD-202

Breathable and rainwater-proof
lime mortar
suitable for spray machines

Just add Water



ISO 9001:2015
CERTIFIED
QUALITY MANAGEMENT SYSTEM
970424A



ISO 14001:2015
CERTIFIED
ENVIRONMENTAL MANAGEMENT SYSTEM
970424B



ISO 45001:2018
CERTIFIED
OCCUPATIONAL HEALTH & SAFETY
MANAGEMENT SYSTEM
970424C



About this product

- MD-202 is a specific type of rendering lime mortar.
- **Purpose:** It serves both building rehabilitation (restoration) and new construction.
- **Composition:** Formulated with a mix of binders, lime, carefully selected white aggregates, and special additives.
- **Breathable:** It allows moisture vapor to pass through, which is essential for maintaining the health of historic or protected buildings.
- **Rainwater-Proof:** Despite being breathable, it effectively repels rainwater.
- Ideal for rehabilitating old masonry walls in historic or protected structures.
- Also applicable for new construction projects.
- **Indoor Environment Quality:** It contributes positively to indoor air quality.
- **Historic Buildings:** MD-202 is especially well-suited for restoring historic buildings due to its compatibility with traditional materials and its breathable nature.
- **New Construction:** It can be used in new construction projects where a breathable, rain-resistant mortar is desired.

Benefits

1. **Application Flexibility:**
 - **Spray Render and Pump Machines:** It can be applied using spray render machines or pump machines.
 - **Manual Application:** Alternatively, it can be applied manually by skilled workers.
2. **Strength and Permeability:**
 - **Mechanical Strength:** It exhibits strengths similar to lime mortars.
 - **High Water Vapor Permeability:** This quality allows the wall to “breathe,” preventing moisture buildup.
3. **Plasticity and Compatibility:**
 - **Great Plasticity:** It’s easy to work with due to its plasticity.
 - **Compatibility:** It works well with old masonry brickworks and walls.
4. **Direct Application:**
 - It can be applied directly to the building enclosure without additional layers.
5. **Weather Resistance:**
 - **Rainwater-Proof:** It effectively repels rainwater.
 - **Weather Resistant:** Suitable for both internal and external walls.
6. **Use Cases:**
 - **New Construction:** It’s applicable in new construction projects.
 - **Building Rehabilitation:** Ideal for restoring existing structures.
 - **Low VOCs Emissions:** It has minimal volatile organic compounds emissions.



Use

1. Purpose and Design:

- These panels are specifically designed for use with mortars.
- They serve a dual purpose: compensating for uneven surfaces and addressing flatness issues in the underlying support structure.
- Essentially, they help create a more even and stable surface for further construction.

2. Versatility:

- You can use these ribbed metal panels for both interior and exterior applications.
- Whether you're working on walls or ceilings, they've got you covered.
- Plus, they can be installed either manually or with mechanical assistance.

Preparation of substrates

1. Substrate Preparation:

- Ensure that the substrates (the surfaces where you'll apply the material) are:
 - Clean: Free from dust, oil, and grease.
 - Compact: Without loose material.
 - Adequately porous: The surface should have the right level of porosity.
 - Rough enough: Surface roughness matters.
 - Correct uneven areas if needed.

2. Dampening and Curing:

- Dampen the substrates with water if they are too warm or if it's windy.
- Wait until the thin layer of water disappears.
- After application, consider curing with a fine spray of clean water 24 hours later.
- Proper curing is essential to prevent rapid drying and depends on surface porosity and absorption.

3. MD-202 Application:

- If there are gaps in the substrate, fill them with MD-202 (presumably a material).
- Allow it to harden.

4. Exceptions:

- Do not apply this material on:
 - Gypsum-based plasters.
 - Painted surfaces.
 - Metal surfaces.
 - Plastic.
 - Surface waterproofing products.
 - Materials with low mechanical properties.
- For cellular concrete, consult the technical department.

Instructions

1. **Mixing:**

- Combine MD-202 manually or mechanically with 4.5 to 5.0 liters of clean water per bag.
- Mix thoroughly until you achieve a homogeneous, creamy, and lump-free paste.
- Allow the mixture to stand for 5 minutes before application.

2. **Application:**

- If using a render spray machine, adjust the water-to-mortar ratio and pump pressure based on the section, hose length, and climatic conditions.
- Key variables affecting mortar properties include the distance from the wall, application angle, and water proportion.

3. **Thickness and Finish:**

- Apply the mixed product using a trowel (if applying manually or mechanically).
- Leave an average thickness of 10-15 mm, depending on the desired finish.
- You can build up thicker layers (up to 30-40 mm) by applying 15 mm thick layers per day.
- Mark the pieces using PVC splines to ensure consistent spacing.
- Press the material to ensure good adhesion and expel any trapped air in the pores.
- Use a ruler to regulate the thickness of the applied material.

4. **Finishing:**

- When MD-202 is in a “green” state (partially set but not fully hardened), finish it using the appropriate tool based on the desired texture (e.g., trowelled or scraped).
- The time required for finishing depends on factors such as substrate type, temperature, and humidity.



Technical data

Properties of mixture and application data

Appearance	Powder
Color	White
Bulk density	≈ 1400 Kg/m ³
Density of the mix	≈ 1750 Kg/m ³
Grading	0-2 mm
Mixing water,%	± 19 %
Minimum finishing thickness	10 mm
Maximum thickness per layer	15 mm
Maximum thickness application	40 mm (three layers)
Coverage	16 Kg/m ² per cm of thickness

Final performances

Type	GP CSII W _c 1
Adhesion	≥ 0,2 MPa
Compressive strength	≥ 1,5 MPa
Water absorption	≤ 0,4 Kg/m ² min ^{1/2}
Water vapor permeability	μ ≤ 15
Thermal conductivity	0,75 W/m·k
Reaction to fire	Euroclass A1
Total VOCs (28 days)	≤ 500 μg/m ³
Radioactivity index (U, Ra, Pb, Th, others)	I = 0,039

Packaging & Storage

- MD-202 is packed 25 kg plastic lined paper bags.
- Storage: unopened in a cool dry place, shelf life is 12 months from date of manufacture
- HS CODE : 3824.50.90.00



Powder Group Products

Packing	Pallette / Bags	Pallet / Kg	Continer 20' / palltes
20 Kg	80	1600	10
25 Kg	64	1600	10





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