

## PRODUCT DESCRIPTION

PlekoLime MT is a dry-mix mortar based on Natural Hydraulic Lime NHL 3.5, specially formulated for the adhesion and pointing of natural stone blocks and bricks in restoration and traditional construction works. It provides high bond strength, low shrinkage, and exceptional compatibility with historic masonry. Graded aggregates give it a dense and durable texture, ideal for joints from 5 mm up to 30 mm.

It is composed of natural hydraulic lime and selected aggregates, in full compliance with the requirements of heritage site restoration. It is easy to use by simply adding water, improving on-site quality control.

## USES

PlekoLime MT is suitable for bonding and pointing of natural stone, brick, and masonry units. It can be applied manually or using gun-injection methods, making it ideal for restoration and new traditional construction, including vertical and overhead joints.

For deep crack injection or structural voids, it is recommended to use PlekoLime IG.

## APPROVED SUBSTRATES

PlekoLime MT can be applied over clean, sound, and stable substrates such as stone, historic brick, lime-based or cementitious units, provided the surface is free from bond-inhibiting material.

## PACKAGING

25 or 50 kg in multiply paper bag

## COVERAGE

1.8–1.9 kg/m<sup>2</sup>/mm depending on joint size, surface texture, and application method. A 25 kg bag yields approximately 18 liters of mortar.

Manufacturer does not warrant square meter coverage, which can vary greatly according to application techniques.

## PROPERTIES

- **High Breathability:** Allows moisture vapor transmission, essential for historic structures
- **Cement-Free:** Preserving the authentic character of heritage structures
- **Natural Finish:** Beigeish color, aesthetically in harmony with heritage buildings
- **Strong Bonding:** Adheres well to various substrates, enhancing durability
- **Low Shrinkage:** Reduces the risk of cracking during curing
- **Environmentally Friendly:** Low embodied energy and natural components contribute to sustainability
- **Compliance:** Conforms to EN 459-1 (Natural Hydraulic Limes)
- **Factory Controlled Quality:** only requires addition of water, improving on-site quality control

## TECHNICAL DATA

Appearance	Free-flowing Beige powder
Binder	NHL 3.5
Mixed Density (kg/L ± 0.5)	1.66
Water Ratio (%)	19-21%
Compressive Strength (N/mm <sup>2</sup> ) after 28 days / EN 1015-11	≥ 1.4
Compressive Strength (N/mm <sup>2</sup> ) after 6month / EN 1015-11	≥ 4.5
Compressive Strength (N/mm <sup>2</sup> ) after 12 month / EN 1015-11	≥ 5.4
Initial Setting Time (hrs)	2-4
Final Setting Time (hrs)	8-10
Vapor Permeability (W-value)	< 0.2 kg/m <sup>2</sup> h <sup>0.5</sup>

## INSTALLATION

### SUBSTRATE PREPARATION

Substrates must be sound, clean, and free from bond-inhibiting materials such as dust, grease, loose mortar, or salts. Hollow or weak joints should be cut back and cleaned as required. Slightly moisten the surface with clean water to achieve a saturated surface dry (SSD) condition prior to application. Surface should appear damp with no water running.

### MIXING

Add 4.75 to 5.25 liters of clean water per 25 kg bag (corresponding to 19–21% by weight). Maintain a consistent water ratio across all mixes to ensure uniform performance and appearance. Gradually introduce PlekoLime MT while mixing continuously using a heavy-duty paddle mixer or mortar mixer until a lump-free and uniform consistency is achieved. Allow the mixture to rest for 5 minutes, then remix briefly before use. Keep the water ratio consistent between batches to ensure uniform performance. Do not add water once the material begins to harden. Do not mix with any other materials unless specifically approved by Pleko.

### APPLICATION

PlekoLime MT can be applied manually using a pointing trowel or by mortar injection guns. For manual application, the mortar should be tightly packed into joints, starting from the bottom upward for vertical joints and followed by horizontal joints. For injection, load the mortar into a suitable gun and inject into joints while withdrawing the nozzle gradually to avoid air pockets. Finish the joints as required once the material begins to firm up. Do not overfill or overwork the surface.

Each layer should be applied with sufficient pressure to ensure good contact with the substrate. Avoid applying in direct sunlight or onto frozen or saturated surfaces.

### CURING

To ensure proper curing and minimize the risk of shrinkage cracks or surface dusting, the mortar must be protected from rapid drying caused by high temperatures or strong winds. In hot or dry climates, it is advisable to maintain a humid environment around the surface for the first 3–5 days.

This can be achieved by covering the render with damp hessian or breathable fabric, ensuring it does not come into direct contact with the surface to prevent staining. The covering should be kept moist by spraying clean water 2 to 4 times per day, supporting hydration and reducing evaporation.

### LIMITATIONS

Substrate temperature: 4 - 35°C

Ambient temperature: 4 - 35°C.

Maintain minimum 4 °C (40°F) ambient temperature for 24 hours after application.

Protect from direct sunlight, wind and rain during application. Protect from rain or frost for 48 hours after application.

Do not mix with any additive or product unless recommended by Pleko.

Pleko bears no responsibility for the defects due to the improper or non-recommended use of the product.

### CLEANING

While still fresh, soluble in water. Clean all equipment with water immediately after use. After hardening, tools should be cleaned mechanically.

### STORAGE

Store in cool, dry, well-ventilated area, protected from freeze, heat and direct sunlight and at a temperature between 4°C (40°F) and 38°C (100°F), in tightly sealed original container off the ground. Storage time must not exceed one year.

## HEALTH AND SAFETY

Avoid contact with eyes and skin. Prevent inhalation of dust.

The product contains hydraulic lime, which can be irritating to the skin and eyes. It is preferable that the application be done in a ventilated area, and to wear protective gear for hands, eyes and respiratory system and to avoid breathing of the dust. Splashes on the skin should be washed away by cleaning with soap and water. In case of contact with eyes, wash thoroughly with clean water. If swallowed, do not induce vomiting, in both cases seek medical attention. The product is non-flammable

### Attention

This product is intended for use by qualified professional contractors, as a component of a larger construction system and specification. It should be installed in accordance with given instructions and specifications. Information listed above reflects the criteria for our internal quality test and practical experience. Results depend on listed instructions and consumer skills and are therefore out of our responsibility whether expressed or implied. All values are valid for the product when dispatched from the plant. Technical data are generated under laboratory conditions, some variations are expected due to weather, site, and application conditions which are beyond the control of the manufacturer. We reserve the right to change any given specification without notice.