

	<b>MONOCOTE</b>	
	<b>Premixed, one-coat cement-based plaster</b>	
	EN 998-1	CE

## Description

**MONOCOTE** is a premixed, one-coat cement-based plaster, for application using plastering machines for interior and exterior surfaces. It provides a smooth finish and high adhesion. It can be used on substrates such as clay bricks, concrete blocks, aerated concrete blocks and concrete (on fair-faced concrete after using an appropriate primer).

## Technical Specifications

Density	: $\approx 1.45 \text{ Kg / L}$
Density of fresh mortar	: $\approx 1.60 \text{ Kg / L}$
Mixing ratio (water / MONOCOTE)	: $\approx 6.50 \text{ L / 25 Kg}$
Substrate temperature	: $+5^{\circ}\text{C min. / } +35^{\circ}\text{C max.}$
Ambient temperature	: $+5^{\circ}\text{C min. / } +35^{\circ}\text{C max.}$
Reaction to fire	: Class A1
Thermal conductivity ( $\lambda_{dry}$ )	: $\leq 0.76 \text{ W / mK (table mean value, } P=50\%)$
Compressive strength	: CSIII
Flexural strength	: $\geq 1.0 \text{ N / mm}^2$
Adhesion strength	: $0.3 \text{ N / mm}^2 - \text{FP:A}$
Water vapour permeability	: $\mu_6$
Water absorption	: $W_{c1}$
Pot life	: At least 3 hours at $23^{\circ}\text{C}$
<b>Consumption</b> Indicatively, $12.7 \text{ Kg / m}^2$ per cm of thickness Indicatively, $78 \text{ m}^2 / \text{MT}$ for layer thickness of 1 cm	

## Instructions for Use

### SURFACE PREPARATION

Before applying **MONOCOTE**, the substrate must be robust, clean, free of dust, oil, residues of other building materials, etc. Cracks or dents on the substrate must be suitably filled and allowed to set, before applying **MONOCOTE**. The substrate must be sprayed with water, before applying **MONOCOTE**, and then let to dry enough so as not to inhibit the adhesion of the mortar. When applied on fair-faced concrete, surface must be treated 24 hours before with the adhesion enhancing primer for internal / external use, with quartz sand **P300**.

For highly absorbent surfaces (e.g. aerated concrete blocks), it is advisable that these are first primed with a solution of **PELEBOND** and water in a ratio of 1:10 to 1:15 (by volume) depending on the absorbency (Pelebond is Peletico's product and for further information please refer to the analytical Technical Data Sheet).

### MIXING

All equipment and containers should be clean, free of dust, residues of previous mixtures and/or other building materials, etc. to not adversely affect the setting time and the mechanical properties of the product.

Depending on the desired consistency, mix 25 Kg (1 bag) of **MONOCOTE** with about 6.50 L of clean tap water.

Ideally, **MONOCOTE** is applied using a plastering machine that mixes and sprays the mixture at

the same time. The operating instructions of the machine manufacturer must be followed.

For intended application by hand (without the use of plastering machine), mix 25 Kg (1 bag) of **MONOCOTE** with about 5.00 – 5.50 L of clean tap water in a mixing container and stir using a low-speed electric stirrer.

In such case, allow satisfactory mixing time until a homogeneous, free of lumps mixture is achieved.

The pot life of the mixture is at least 5 hours, depending on the weather conditions. In such case, stir periodically, without adding extra water, to keep the mixture workable. In case the mixture has started to set before it is used, then dispose immediately without using it. In any case, do not add additional water for remixing and/or for improving its workability.

### **APPLICATION CONDITIONS**

Use **MONOCOTE** only at temperatures between +5°C and +35°C. During periods of low temperatures (5 – 10°C), it is advisable that warm water (approx. 30°C), is used for the mixing and if possible, the application to be performed during noontime. On the contrary, use cool water (approx. 20°C), for the mixing during high temperatures (up to 35°C) and if possible, the application to be performed in the coolest hours of the day (early in the morning or late in the afternoon hours) avoiding the direct sunlight.

### **APPLICATION**

Allow 3-4 weeks after bricklaying before applying **MONOCOTE**. Within that period, joints are subjected to shrinkage.

Always wet the substrate before the application of **MONOCOTE**, especially during the summer months.

During the application (using a plastering machine), hold the nozzle of the machine approximately 20cm from the surface and spray with a constant, horizontal movement, starting from the top to the bottom of the wall.

For application of **MONOCOTE** over substrates, such as clay bricks, concrete blocks, aerated concrete blocks or concrete surfaces, it is important that a bonding “spattered” coat (as 1st layer plaster) of **MONOCOTE** is applied, for enhancing the adhesion of the following layers.

Fill the guides to the desired thickness. Excess mixture is removed, and the surface is formed with an aluminum or wooden bar. Any irregularities or gaps should be filled using a trowel and made smooth. In case the imperfections are extended, re-plastering the surface should be considered. Hand application can also be used.

When the plaster has sufficiently set (this is according to plasterer’s judgement), the surface shall be floated using a spongy, wooden, or plastic float. Floating is made easier by lightly soaking the surface. A smooth surface can also be obtained using a steel trowel.

For thickness greater than 15mm, the plastering is done in layers of 10 – 15 mm. Apply the first layer of plaster and leave its surface rough. After the first layer has been set, apply the next layer (preferably within 24 hours) to fill up the overall thickness. This will reduce internal stress and the tendency for cracking of the surface.

After plastering, the surface should be sprayed with water for at least 5-6 days and protected from extreme weather conditions.

### **DECORATION**

Ideally, **MONOCOTE** should be allowed to cure for at least 3 – 4 weeks before decorating.

If additional smoothing and finishing is required, for interior surfaces use any of the interior or exterior wall levelling compounds from **PELEMURA** family of products, the finishing plasters **THERMOCEM FINISH**, **WATERPROOF FINISH** and **ULTRA MIX**, or the gypsum-based finishing plaster **PELELITE FINISH**. For exterior surfaces, use any of the exterior wall levelling compounds from **PELEMURA** family of products, or the finishing plasters, **WATERPROOF FINISH** and

**ULTRA MIX.** In case of appearance of salts on the surface (efflorescence), these shall be removed using a stiff trowel, before decorating. It is advisable to sand the final surface before painting.

## CLEANING OF EQUIPMENT

Clean all tools and mixing equipment thoroughly with plenty of water after completion of work, while the mixture is still fresh. In case that the mixture has been set, then tools can be cleaned only by mechanical means.

## REMARKS / LIMITATIONS

- Use only fresh, clean, tap water for both mixing and cleaning.
- Avoid using material which was stored in open bags for a long period of time.
- Never add water or new material to the mixture which has started to set to improve the workability.
- Do not add cement, gypsum, sand or any other materials to the supplied product, as this may negatively affect the final properties of the product.
- Avoid using the product under extreme weather conditions (strong winds, direct sunlight etc.).
- Do not exceed the required mixing ratio. Any change in the recommended mixing ratio may adversely affect the properties of the product.
- Do not use **PELEMIX BUILD & PLASTER** for concrete repairing of structural elements such as columns, beams, roof slabs etc. In such cases, use RM40.

## PACKAGING

25 Kg multiwall paper bags (one layer of which is made of PE-HDPE).

## STORAGE

**MONOCOTE** can be stored for 3 months from production date, in its original, unopened packaging in dry conditions. The storage place must be covered and protect the product from direct sunlight, water, and moisture, while the product must not be in direct contact with the floor.

## Health and Safety Measures

- The product contains cement, which reacts as alkaline with water, moisture, sweat and/or other body fluids so it is classified as an irritant. Follow normal precautions as with all cementitious materials and products.
- Harmful in contact with skin.
- Harmful if inhaled.
- Harmful if swallowed.
- May cause respiratory irritation.
- Keep out of reach of children.
- Wash body and clothes thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Wear respiratory protection.
- Please refer to Safety data Sheet for more information and advice regarding the safe handling, storage, use and disposal of the material.

**Note 1:** All Technical Data provided on section "Technical Characteristics" are based on laboratory trials and tests, under conditions which may significantly differ from the ambient application conditions. Therefore, the actual technical characteristics may vary due to conditions or circumstances beyond company's control.

**Note 2:** The information provided by our Technical Data Sheets or given by our employees, agents or distributors concerning the use of our products, is based upon extensive research and experience and are provided in good faith in order to help you. We guarantee the consistent high quality of our products; however, as we have no control over site conditions of the executions of work, we cannot accept any liability for any loss or damage, which may arise as a result thereof.

**Note 3:** All cement-based products, must be stored in dry sheltered places, on wooden pallets. Even under these circumstances, the products are influenced by the atmospheric moisture after a period of time. Since this period is not defined or standard, we strongly advise our customers not to use hardened products or if, generally, its quality due to storage is uncertain.