



## PELEMIX BUILD & PLASTER

Ready-mixed cement-based mortar used for plastering and masonry works

EN 998-1 EN 998-2



### Description

**PELEMIX BUILD & PLASTER** is a ready-mixed cement-based mortar with selected aggregates and chemical additives, which only requires the addition of clean water, to create a mixture of excellent workability for interior and exterior use.

**PELEMIX BUILD & PLASTER** is suitable for application as a rendering and plastering mortar replacing traditional render coatings on several substrates such as clay bricks, concrete blocks, concrete etc. It can be also applied on fair-faced concrete with the use of pretreatment bonding agent P-300 as a primer. It is suitable for application as a masonry mortar for brick laying such as clay bricks or concrete blocks.

**PELEMIX BUILD & PLASTER** is classified as a rendering and plastering mortar according to European Standard EN998-1 and as a masonry mortar according to European Standard EN 998-2,

### Advantages/ Characteristics

- Excellent workability
- Excellent adhesion to the substrate
- Easy and fast application
- Ideal for internal and external use
- Ideal for creating a smooth substrate which can be over coated with a finishing plaster

### Technical Specifications

Density	: ≈ 1.50 Kg / L
Density of fresh mortar	: ≈ 1.65 Kg / L
Mixing ratio (water / PELEMIX BUILD & PLASTER)	: 5.00 – 5.50 L / 25 Kg
Substrate temperature	: +5°C min. / +35 °C max.
Ambient temperature	: +5°C min. / +35 °C max.
Reaction to fire	: Class A1
Thermal conductivity ( $\lambda_{dry}$ )	: ≤ 0.55 W/mK (table mean value, P=50%)
<u>Compressive strength</u>	
• According to EN 998-1	: CSIII
• According to EN 998-2	: M5
Flexural strength	: 1.6 N / mm <sup>2</sup>
Adhesion strength	: 0.8 N / mm <sup>2</sup> – FP:A
<u>Water vapour permeability</u>	
• According to EN 998-1	: μ20
• According to EN 998-2	: μ5/20
Water absorption	: W <sub>c</sub> 1
Pot life	: At least 3 hours at 23°C
<u>Consumption:</u> Indicatively, 13.5 – 14 Kg / m <sup>2</sup> per cm of thickness, for use as a plaster on even substrates	

**SURFACE PREPARATION**

Before applying **PELEMIX BUILD & PLASTER**, the substrate must be robust, clean, free of dust, oil, residues of other building materials, etc. Loose adhering particles and segments must be removed manually or by mechanical means. Slightly weak and fragile surfaces which will keep dusting after cleaning, should be primed/stabilized, with the use of **ECOPRIMER** by PELETICO. When applied on fair-faced concrete, surface must be treated first with the adhesion enhancing primer for internal / external use P300 by PELETICO.

**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 **PELEMIX BUILD & PLASTER** with 5.00 – 5.50 L of clean tap water. Use a low-speed electric stirrer or a concrete mixer for the preparation of the mortar. Pour the appropriate amount of clean water, into a suitable mixing container and while stirring, add the proportional quantity of dry powder. Mix for at least 3 minutes, until a homogeneous, free of lumps mixture is obtained and the desired consistency is achieved. The mixture can remain workable (pot life) for at least 3 hours, depending on the weather conditions. Stir the mixture regularly to remain workable but do not add any additional water. In case the mixture has started to set before it is used, then dispose immediately without using it. Do not add additional water to the mixture for any case.

**APPLICATION CONDITIONS**

Use **PELEMIX BUILD & PLASTER** 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****For rendering / plastering works**

The substrate must be sprayed with water, before applying **PELEMIX BUILD & PLASTER**, especially in periods of hot weather. Use **PELEMIX BUILD & PLASTER** on the surface of application to create guides of the desired thickness. Once the guides cure and harden, apply **PELEMIX BUILD & PLASTER** using the regular plastering techniques as for all conventional cement renderings. In case that mortar thickness is higher than 25 mm, apply the mortar in multiple layers where each layer can be applied once the previous one has dry but within 24 hours. In such case, make sure that every previous layer remains rough in order to improve the overcoat adhesion ability.

**For brick / block laying**

Apply **PELEMIX BUILD & PLASTER** using the same techniques as with conventional mortars. Joints between bricks should not exceed 10 mm

**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.).

- In case of applications with increased demand in adhesion, flexural and tensile strength, resistance to wear, stability in freeze/thaw cycles or reduced water permeability, **PELEMIX BUILD & PLASTER** can be improved by the addition of improving admixture PELEFIX by PELETICO.
- 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

**PELEMIX BUILD & PLASTER** 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 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.