# PELÉTICO Be a Creator

	UNIPLAST Cementitious mortar for bonding, smoothing, and finishing		
25kg	GP-CS IV W2 EN 998-1		
Description	<b>UNIPLAST</b> is based on cement and specially selected aggregates. It is reinforced and modified with special polymers. It is classified as a general-purpose mortar GP-CS IV W2 according to the European Standard EN 998-1. It is characterized by strong adhesion, hydrophobicity, and high elasticity (category S1 according to EN 12004). It is suitable for both interior and exterior surfaces.		
	<ul> <li>UNIPLAST has multiple applications, including:</li> <li>Bonding thermal insulation boards made of Extruded Polystyrene (XPS), White or Graphite Expanded Polystyrene (EPS), and Mineral Wool on rendered surfaces, as well as on concrete or brick surfaces.</li> <li>Base coat in combination with alkali-resistant fiberglass mesh for thermal insulation boards and gypsum boards.</li> </ul>		

- Finishing coat on external wall thermal insulation systems (applied using wooden or sponge float or smoothed with a metal flat trowel to directly accept primer and paint).
- Finishing coat for smoothing fair-faced concrete surfaces and spritz finishes (a texture finish, based on white cement and aggregates for exterior surfaces).

## Technical Specifications

# CHARACTERISTICS

Density	≈ 1.30 Kg / L	
Density of fresh mortar	≈ 1.70 Kg / L	
Colour	Grey	
Mixing ratio (water / UNIPLAST)	8.00 – 8.50 L / 25 Kg	
Substrate temperature during application	+5 °C min. / +35 °C max.	
Ambient temperature	+5 °C min. / +35 °C max.	
Pot life	At least 2 hours at 23°C	

## **PERFORMANCE CHARACTERISTICS - EN 998-1**

Reaction to fire	EN 13501-1	Euroclass A1
Thermal conductivity ( $\lambda_{dry}$ )	EN 1745	≤ 0.76 W / mK <i>(tab. mean valu, P=50%)</i>
Compressive strength	EN 1015-11	12.5 N / mm <sup>2</sup> (Category CS IV)
Flexural strength	EN 1015-11	3.9 N / mm²
Adhesion to concrete	EN 1015-12	1.9 N / mm <sup>2</sup> – FP:A
Water vapour permeability coeff.	EN 1015-19	μ6
Water absorption	EN 1015-18	0.1 Kg/m <sup>2</sup> min <sup>0.5</sup> (Category W2)

## Consumption:

 $4 - 5 \text{ Kg/m}^2$  for bonding of thermal insulating boards using a notched trowel and  $1.27 - 1.29 \text{ Kg/m}^2$  per mm of thickness for plastering



Instructions for use

## SURFACE PREPARATION

Before applying the mixture, the quality of the substrate should be checked. **UNIPLAST** should be applied on a clean, strong, and compact surface, free from dust, mold release agents, residues of other construction materials, etc.

Surfaces that generate dust should be stabilized beforehand with the acrylic stabilizing primer **ECOPRIMER**. For substrates with high absorbency and for applications during the summer months, the surface should be moistened but allowed to dry for a few minutes to be slightly damp during the application of **UNIPLAST**.

Paint from already painted surfaces should always be removed and cleaned thoroughly. Any cavities or voids in the substrate, up to a thickness of 30 mm, should be leveled with **THERMOCEM UNDERCOAT** or **PELEMIX BUILD & PLASTER** cementitious mortar. Structural elements made of concrete should be repaired with a high-strength, fiber-reinforced, resinmodified cementitious mortar, **RM40**.

## MIXING

Before preparing the mixture, ensure that the tools and containers to be used for mixing are clean, free from dust and residues of previous mixes or other construction materials, to avoid negatively affecting the setting time and mechanical strength of the mixture. Mix 25 kg (1 bag) of **UNIPLAST** with 8.00 - 8.50 liters of clean drinking water, depending on the desired workability.

Mixing should be done with a low-speed electric mixer. Add the product to the required amount of water while continuously stirring and mix for at least 3 minutes or until a homogeneous mixture of suitable consistency without lumps is achieved. Wait for about 10 minutes and mix again.

The mixture remains workable in the mixing container for at least 2 hours, depending on the weather conditions. Stir the product regularly to keep it workable, but in any case, do not add additional water to improve the workability. If the mixture starts to set before being used, it should be discarded. Do not add additional water to the mixture under any circumstances.

## **APPLICATION CONDITIONS**

Use only at temperatures between +5°C and +35°C. During winter or periods of low temperatures (5-10°C), it is advisable that warm water (approx. 30°C) used for the mixing and if possible, the application should be performed during noontime. On the contrary, during periods of high temperatures (up to 35°C), the use of cool water (around 20°C) for mixing is recommended, and the application of the material should be done as much as possible during the cooler hours of the day (early morning or late afternoon), avoiding direct sunlight exposure.

## APPLICATION

## Application of thermal insulation panels

For application on brick walls, **UNIPLAST** is applied with a trowel around the edges of the thermal insulation panel and at 2-3 intermediate points, while on plastered surfaces, **UNIPLAST** is applied with a notched trowel, 10 x 10 mm, on the entire surface of the thermal insulation panel. Subsequently, the thermal insulation panel is pressed firmly onto the surface, checking its levelness with a spirit level. The thermal insulation panels should be applied carefully to avoid leaving gaps or allowing the ingress of mortar between them.

## Application as a base coat on thermal insulation panels

For application as a base coat on thermal insulation panels, **UNIPLAST** is applied after at least 24 hours have passed since their installation, in a single layer using a flat or notched metal trowel on the surface of the thermal insulation. At the same time, an alkali-resistant fiberglass mesh weighing 145 - 160 g/m<sup>2</sup> is applied and pressed into the first layer with a flat metal trowel to be incorporated it into the first coat. The overlaps of the mesh should be at least 10 cm. During the application of the first coat, diagonal reinforcement strips of fiberglass mesh are also applied at the corners of openings, as well as all accessories such as corner beads, drip edges, etc. The first coat should have a thickness of 2-3 mm including the fiberglass mesh. Once the first coat has hardened, **UNIPLAST** is applied using a flat metal trowel at a thickness of 2-3 mm to fully cover the surface. The total thickness of the two coats should be at least 4 mm.



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### Application as a base coat on plasterboards

For the application as a basecoat on gypsum boards, it is essential to first apply a special tape and perform jointing and screw filling with a suitable joint compound, and then allow it to dry. If the joint compound is gypsum-based, it should be primed with stabilizing primer **ECOPRIMER**.

Subsequently, **UNIPLAST** is spread in a uniform layer using a flat or notched metal trowel on the surface of the gypsum board. At the same time, an alkali-resistant fiberglass mesh weighing 145-160 g/m<sup>2</sup> is applied and pressed with a flat metal trowel to incorporate it into the first coat. The overlap of the fiberglass mesh should be at least 10 cm. During the application of the first coat of **UNIPLAST**, diagonal reinforcement strips of fiberglass mesh are also applied at the corners of openings, as well as all accessories such as corner beads, drip edges, etc. The first coat should have a thickness of 2-3 mm including the fiberglass mesh. Once the first coat has hardened, **UNIPLAST** is applied using a flat metal trowel at a thickness of 2-3 mm to fully cover the surface. The total thickness of the two coats should be at least 4 mm.

## Application as a finishing coat

For finishing on flat surfaces, such as external thermal insulation, plasterboard, or fair-faced concrete, the surface should be moistened but allowed to dry for a few minutes to be slightly damp during the application. **UNIPLAST** is applied using a flat metal trowel at a thickness of approximately 2mm. Finishing is done once the plaster has dried enough so not to leave fingerprints when touched. For a slightly textured result, a wooden or sponge float is used in circular motions after spraying water on the surface. For a smooth finish, a flat metal trowel is used in straight motions after spraying water on the surface. For application as a final coat on spritz (a texture finish, based on white cement and aggregates for exterior surfaces), after proper preparation, the surface is filled with **UNIPLAST** until it becomes flat without gaps. Then, the same procedure as described above is followed for finishing.

## DECORATION

Ideally, **UNIPLAST** should be allowed to cure for at least 3 days per mm of thickness before final decoration.

Subsequently, the surface should always be lightly sanded with fine sandpaper to remove any protruding fibers and then primed with the stabilizing primer **ECOPRIMER**. The final decoration on external surfaces should be done using the 100% acrylic, elastomeric, breathable paint **LOXON**<sup>®</sup>, while on internal surfaces, one of the decorative interior paints from the **PELELAC**<sup>®</sup> or **SHERWIN-WILLIAMS**<sup>®</sup> range can be used.

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## **CLEANING / MAINTENANCE OF TOOLS**

The tools and equipment used should be thoroughly cleaned immediately after completing the application, using plenty of clean water before the material dries. If the material has dried, it can only be removed using 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 **UNIPLAST** for concrete repairing of structural elements such us 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).



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## STORAGE

**UNIPLAST** 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.

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