

## Mono Eco

White fibre-reinforced plaster coat, made with natural lime and hydraulic binder with high adhesive power, low capillary absorption and high vapour permeability, for indoor and outdoor use.

**Mono Eco** is a plaster coat made from pure natural hydrated lime, hydraulic binder and specific additives, which improve the adhesion and workability of the plaster without altering its natural matrix. **Mono Eco** boasts excellent aqueous vapour permeability combined with low capillary absorption. The natural origin of the raw materials ensures the breathability of **Mono Eco**, regulating internal humidity levels and improving the overall health of indoor environments .



### MAIN FIELDS OF USE

**Mono Eco** can be applied both manually and by machine (through the use of classic plastering machines) on various types of interior/exterior substrates such as:

- Brick
- Stone
- Masonry
- Tufa
- Mixed masonry
- Cement blocks
- Concrete

For applications on different substrates, please contact our technical department.

### CHARACTERISTICS

- Fluidity: the special formulation of **Mono Eco** ensures excellent workability regardless of the thickness. The special additives present in the formulation allow the product to have excellent adhesion and bonding of the product on the substrate even with high thicknesses.
- Vapour permeability: the specific natural additives used in **Mono Eco** help create numerous pores allowing the aqueous vapour in the walls to quickly evaporate.
- Low shrinkage: the fibres offer the plaster anti-shrinkage characteristics, thus minimising the formation of micro-cracks.

## APPLICATION METHOD

### Preparation of the substrate

In case of stone, brick, or mixed masonry, any parts that are disjointed or inconsistent due to salt concentrations must be removed by wet sandblasting and subsequent pressure washing, including any bedding mortar. In this case it will be necessary to reconstruct the parts removed by using compatible mortars.

Preparation of the substrates on new walls must be performed in the same way as a normal traditional plaster. The final surface of the masonry must be free of all dust and dirt. Any traces of oil, grease, wax, etc. must be removed. Before any works on porous and/or absorbent substrates, the surface must be saturated and brought to the SSD (Saturated Surface Dry) condition.

### Preparing the mixture

6.00-6.50 litres of clean water are required for each 25 kg bag (i.e. 24-26% in mass).

Pour the product into a clean container with  $\frac{3}{4}$  of the mixing water. Mix for about 3 minutes with a low-speed mixer, gradually adding the remaining water until you obtain a thixotropic, uniform, lump-free mixture. For the best application, leave the mixture to rest for a few minutes. Do not divide the packages up into partial mixtures.

If the product is stored in open, partially used sacks, it may not meet the technical characteristics outlined in this document.

### Application

The product can be applied by hand or using a plastering machine. In case of application by hand, apply the first layer of rough coat by hand using a trowel so as to completely cover the surface, leaving a "rough" surface to facilitate the adhesion of the following layers. Then apply the plaster in one or more coats with maximum thickness 2 cm per coat, smoothing out the surface using an aluminium straight edge. The overall thickness of the application must be at least 1.5 cm so as not to compromise the proper adhesion and resistance typical of **Mono Eco**.

## PRODUCT INFORMATION

Appearance	White powder
Particle size	$\leq 1$ o 1.5 mm
Powder consumption	13.5 kg/m <sup>2</sup> every 10 mm of thickness
Mixing water	24-26% of the weight of the powder
Workability time at 20 °C	Approx. 3 hrs
Application thickness per coat	$\leq 20$ mm
Application temperature	From +5 °C to +35 °C
Storage	12 months in dry, protected place in unopened container at temperatures between +5 °C and +35 °C
Packaging	25 kg
pH of mixture	approx. 11

**PERFORMANCE**

Characteristic	Test method	Legal requirement	Performance
Dry density in bulk	EN1015-10		1370-1470 kg/m <sup>3</sup>
Compressive strength	EN1015-11		> 4 MPa
Adhesion	EN1015-12		>0.5 Mpa
Fracture pattern	EN1015-12		B
Capillary absorption	EN1015-18		W0
Euroclass fire resistance	EN13501-1		A1

**WARNINGS**

- Product for professional use.
  - The values expressed in the technical data derive from laboratory tests in a conditioned environment, therefore they could be significantly modified by the laying conditions.
  - Protect eyes and skin during application. Alkaline product.
  - After using the product, wash the tools with water while the mortar is still fresh.
  - If the product is stored in open, partially used sacks, it may not meet the technical characteristics outlined in this document.
  - For correct installation of the product, the following are recommended:
  - Do not add other products or binders, **Mono Eco** must be mixed only with the amount of water indicated;
- For any application other than that shown on the sheet (type of substrate, thickness, etc.) please contact the **Licata Technical Service**.
- The ambient temperature and humidity rate influence the workability, setting and drying times.

**SAFETY**

Please consult the safety data sheet for information about product disposal, storage and usage.

**NOTES**

This data sheet replaces and voids all previous versions.

The indications and specifications given in this document are based on our current technical and scientific knowledge. They should, however, be considered as purely indicative because we have no control over the conditions in which the product will be used. The purchaser must, therefore, check that the product is suitable for his specific requirements. Our sales and technical network guarantees rapid consultancy services and is at your disposal for any clarifications and questions you may have about the use and application of **Licata SpA** products.

Data sheet ref.: 032/20.4