

## 1. DESCRIPTION

Light and insulating premix of Leca® expanded clay with particle sizes between 1 mm and 5 mm with hydraulic binder and additives.

## 2. USES

Lightweight concrete for filling and leveling internal and external floors; execution of pendants on roofs, terraces and balconies; single layer application. Improves the thermal and acoustic behavior of floors. Suitable for application in new constructions and rehabilitation works, in thicknesses from 4 cm. Each bag weighs 15-17kg.

## 3. LIMITS OF USE

The coverings that can be applied directly to Leca® Uno are ceramic, natural stone and laminate flooring. Other coverings – linoleum, vinyl, etc. - consult Leca UK for other tasks before application. Waterproofing systems can also be applied directly.

## 4. COMPOSITION

- Hydraulic binder
- Leca® lightweight aggregates
- Additives

## 5. CHARACTERISTICS OF USE

Waiting time before pedestrian movement: 24 hours.

Use the contents of each bag at once.

## 6. Installments

CHARACTERISTICS	DECLARED VALUE	OBSERVATION
Compressive strength 28 days	7,4 ± 0,6 N/mm <sup>2</sup> (7,4 ± 0,6 MPa)	Report No. ARG 032/23 ITECONS
Flexural strength 28 days	2,3 ± 0,6 N/mm <sup>2</sup> (2,3 ± 0,6 MPa)	
Fire behavior	Non-combustible (Class A1)	
Hardened bulk mass	826 ± 2 Kg/m <sup>3</sup>	Report No. ARG 032/23 ITECONS
Thermal resistance of the hardened mixture and dry	$\lambda_{10, seco} = 0,2768 \text{ W/m.}^\circ\text{C}$	Relatório nº OMH 107/18 ITECONS
Thermal resistance of the hardened and dried mixture	$R = 0,19 \text{ m}^2.\text{}^\circ\text{C/W}$	
Sound insulation index for air conduction sounds $R_w$ (range: $R_w \leq 72 \text{ dB}$ ) for 5 cm filling (there are results for 10 and 20 cm fillings; consult Leca UK)	- $R_w$ , without reinforcement (C100-3150; Ctr 100-3150; C100-5000; Ctr 100-5000) = 52 (-1;-5;0;-5) dB - $R_w$ , with reinforcement (C100-3150; Ctr 100-3150; C100-5000; Ctr 100-5000) = 55 (-1;-3;0;-3) dB	Report No. OMH 107/18 ITECONS
Reduction in the transmission of percussion sounds $\Delta L_w$ (range: $\Delta L_w \leq 50 \text{ dB}$ ) for 5 cm filling (there are results for 10 and 20 cm fillings; see Leca UK)	$\Delta L_w (CI,\Delta) = 8 (-2) \text{ dB}$	Report No. ACL 188/18 ITECONS

Note: these results were obtained in laboratory tests and may vary depending on application conditions.

## 7. ENVIRONMENTAL PRODUCT DECLARATION (EPD)

More information in the product sheet at [www.leca.co.uk](http://www.leca.co.uk)

## 8. SUPPORT PREPARATION

The substrate must be consolidated, dry and free of any impurities that make it difficult for the material to adhere. Pipes must be well insulated.

## 9. APPLICATION

Mix Leca<sup>®</sup> Uno with water (5 liters/bag) for the time necessary to obtain a homogeneous mixture with a shiny appearance. If you use a continuous mixer the amount of water must be adjusted to the type of machine. Spread the material across the entire area to be filled. Level to the desired thickness using a ruler and smooth with a manual or electric trowel. Keep the material moist for the first few hours and perform retraction joints, if necessary. After drying, the material is ready to be covered with ceramic material, natural stone or laminate flooring.

## 10. RECOMMENDATIONS

Use the contents of each bag at once. In large areas, it is recommended to create perimeter joints. In the case of ground floors, the support and walls must be properly waterproofed. Do not use excess water, as this may cause the binding layer to flow towards the base of the filling layer. In the case of a floor with mechanical instability, reinforce the filling layer with mesh mesh or equivalent.

## 11. CONSUMPTION

2 bags of 25 liters/m<sup>2</sup>/4 cm thick layer.

## 12. SAFETY RECOMMENDATIONS FOR USE

Due to the presence of hydraulic binder in the composition, the product is considered irritating to the eyes, affecting respiratory tract and mucous membranes. As an individual protection measure, non-absorbent gloves and work clothes must be used to prevent product contact with the user.

## 13. DELIVERY

Euro pallet with 40 plastic bags of 25 liters (1 m<sup>3</sup>).

## 14. COLOUR

Grey.

## 15. CONSERVATION

12 months from the date of manufacture in unopened original packaging, protected from moisture. For more information, see the product's Declaration of Performance according to EN 13813:2002 in the product sheet at [www.leca.co.uk](http://www.leca.co.uk).

Indications for use and technical data about the product are presented in good faith and are based on accumulated experience and knowledge in typical use situations. Application and use conditions can influence the product's behavior, so it is advisable to carry out checks and tests in each specific situation.

For more information, contact Leca UK on 0844 335 1770 or by email at [enquiries@leca.co.uk](mailto:enquiries@leca.co.uk), or consult the website [www.leca.co.uk](http://www.leca.co.uk)