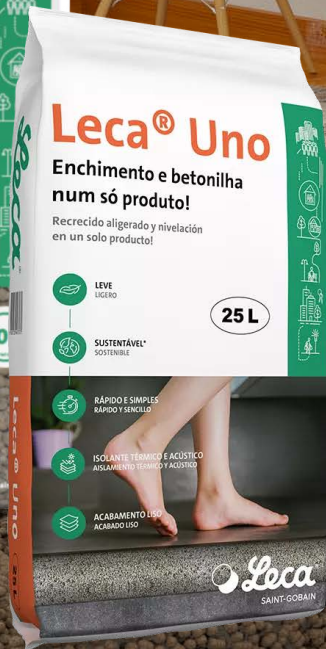


Product Overview





Working together with LECA® UK

LECA® have been around for over 75 years and Leca® (LWA) Lightweight Aggregate is used extensively as a lightweight fill for civil engineering and structural applications. While Leca® LWA is a simple product, their solutions are innovative. Alone, it is one single expanded clay pellet, but combining the pellets into an aggregate, its possibilities become numerous –whether it is laying the foundation for construction, building roads and walls or developing drainage solutions. The simplicity of the product makes it flexible in the construction process.

LECA® transform 1m³ of freshly dug clay into 5m³ of lightweight expanded clay aggregate construction material. Through this highly resourceful return of 1:5, they feel that their production positively impacts the full life circle of a natural resource, from cradle to grave. By combining the All-in-One features such as being durable, strong, lightweight, water absorbent and recyclable, Leca® LWA actually benefits the environment, limiting resource requirements and improving our living and working conditions.

LECA® is part of the Saint-Gobain Group which is committed to reducing greenhouse gas emissions and their intermediate commitment is reducing the greenhouse gas emissions by 30% in 2025 followed by 50% reduction by 2030, achieving Carbon Neutrality by 2050. For that LECA® will invest in clean processes, substituting the consumption of fossil fuels with green energy.

Resapol are excited to be able be working with LECA® and bring their lightweight products to the customer base. By striving to collaborate with suppliers who not only share Resapol's passion for excellence but also for sustainability shows commitment to creating a positive impact on the world.

LECA® LWA

Leca® Lightweight Aggregate (LWA) is a natural, unique and sustainable lightweight clay aggregate. Leca® LWA has remarkable properties which ensure its versatility for use in a vast number of structural and geotechnical applications. It is the only "all in one" aggregate solution for Architects and Civil Engineers to overcome problematic areas in construction and design.





LECA® UNO PRE-MIXED CONCRETE

Leca® Uno for filling and levelling interior and exterior floors, applied in a single layer - increasing thermal and acoustic improvement of floors.

Suitable for application in new construction and rehabilitation works, in thicknesses from 4 cm.

Lightweight concrete applied in a single layer.

- Allow for 24 hours to set before pedestrian surface mobility.
- Use the contents of each bag at once.
- Applied in thicknesses from 4 cm, can be final surface covered without Screed: natural stone, floating flooring, linoleum, vinyl, laminates

Product Specification:

- Compressive strength 28 days: $\geq 5 \text{ N/mm}^2$ (5 MPa)
- Flexural strength 28 days: $\geq 2 \text{ N/mm}^2$ (2 MPa)
- Fire behaviour: non-combustible (Class A1)
- Hardened density: 1000 kg/m^3
- Thermal conductivity (according to EN 1745-2002), $\lambda_{10, \text{dry}} = w \text{ 0.30 - 0.32 W/mK}$



Watch the Leca® Uno Video by clicking here to see a tutorial on how to apply this easy to use lightweight concrete.





LECA® INSUFILL UNDERFLOOR INSULATION

Leca® Insulation Fill is a lightweight expanded clay insulation that cuts foundation time by hours. It is available in 50 litre bags, making insulated foundations (which supports Part L of the Building Regulations) a simple, one man process. What is really clever about Leca® Insulation Fill is that it is stored, collected, transported and laid in the site in the bag and covered.

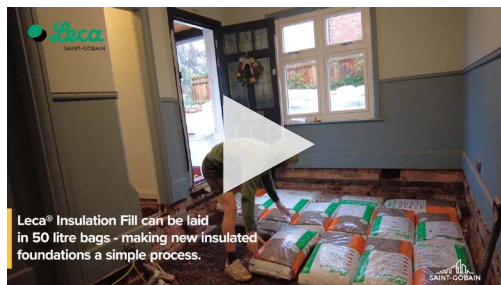
Suitable for:

- Extensions
- Conservatories
- Garages
- Refurbishments
- Conversions
- Driveways
- Drainage
- General back fill

The lightweight alternative to hardcore and insulation:

- is lightweight and easy to handle
- is thermally insulating
- is protective to duct, pipe and damp proof membranes
- can be installed in the bag directly in to the foundation
- saves time and money
- Lay it in minutes in a simple, one-man operation

In larger projects where resident turnaround times are key in housing upgrades, Leca® Insulation Fill can save around 40 man hours per house during installation of insulated solid floors. It cuts turnaround times, minimises disruption for residents and enables two labourers to prepare a 40m² base in just one hour, compared to two days for three labourers to do the same job using hardcore and polystyrene insulation. It also virtually eliminates the need for numerous heavy vehicle journeys through the site during the works.



The 50 litre bag weighs just 15kg: no mess, no need for heavy machinery, no heavy lifting and no waste!



The energy saving, fast and economical way to create foundations and floors for new builds and renovation projects

Example of a typical floor build up



Leca® Insufl and Leca® Uno meet the current Part L requirements for building regulations depending on individual site conditions. For example,

Extensions on a existing dwelling the limiting U value will be **0.18 W/m²K**

Layer	d (mm)	Description
1	10	Self Smoothing fibre reinforced screed
2	50	Leca® Uno
3	300	Leca® Insufl
Total:	360mm	