



# HERAMASS LIGHT

Cementitious screed lightened with expanded glass spheres, with insulating properties and controlled shrinkage, for interiors and exteriors



## TECHNICAL FEATURES

**HERAMASS LIGHT** is a premixed cement-based and expanded glass aggregates for the creation of lightened screeds in environments for civil use. Lightweight and with good mechanical resistance, it is ideal when the load-bearing structures cannot be weighed down. Its use is also suitable for creating thermal insulation of a mineral nature and, therefore, incombustible.

**HERAMASS LIGHT** is ready to use and is used at the consistency called "humid earth" or "semi-humid", it can be worked both manually and mechanically and can be pumped directly on the surface.

**HERAMASS LIGHT** has classification **CT C16 F4** in accordance with standard **EN 13813** Screeds and materials for screeds and classification of reaction to fire **A1<sub>fl</sub>**.

## FIELD OF APPLICATION

**HERAMASS LIGHT** is used in internal and external environments for residential use for the creation of screeds (anchored, desolidarised or floating), for load distribution layers, to create slopes or raise the levels of the flooring. On screeds made with **HERAMASS LIGHT** it is possible to lay ceramic tiles, stone materials and wooden coverings.

## PREPARATION OF THE SUBSTRATE

The substrates must be mature, dry and stable, not subject to rising damp. Clean the surfaces and remove scraps, dust and foreign bodies. Any unevenness in the substrate must be treated in advance.

**In the case of adherent screed** (minimum thickness 3.5 cm): vacuum the dust from the substrate and remove all traces of plaster, oil or release materials. Cover the perimeter walls and any columns with compressible material with a minimum thickness of 10 mm and a height no lower than the level of the finished flooring. Using a flat brush or brush, apply a bonding grout (grip bridge) made up of 2 parts of cement, 1 part of **HERALAX FLEX** synthetic latex and 1 part of water. Start making the screed immediately (fresh on fresh).

**In the case of desolidarized screed** (minimum thickness 5 cm): spread a polyethylene sheet on the substrate, overlapping the joints by at least 10 or 15 cm and seal with moisture-resistant adhesive tape. Cover the perimeter walls and any columns with compressible material with a minimum thickness of 10 mm and a height no lower than the level of the finished flooring. Accurately prepare the levels and the containment banks and then start spreading **HERAMASS LIGHT**.

**In the case of floating screed** (minimum thickness 6 cm) on thermal or acoustic insulation systems: based on the compressibility index of the materials used, provide for the possible use of a reinforcing electro-welded mesh (5 x 5 cm and steel wire  $\varnothing$  2 mm) to be inserted halfway through the thickness of the screed. Spread a polyethylene sheet on the substrate, overlapping the joints by at least 10 or 15 cm and seal with humidity-resistant adhesive tape. Cover the perimeter walls and any columns with compressible material with a minimum thickness of 10 mm and a height no lower than the level of the finished flooring. Accurately prepare the levels and the containment banks and then start spreading **HERAMASS LIGHT**.

## MIX PREPARATION

Using a traditional cement mixer or auger or planetary mixer or a special mixer with automatic pressure pump, carefully mix the powder with clean water, until you obtain the consistency called "damp earth" taking care to avoid the formation of lumps. With a cement mixer, do not prolong the mix for more than 3 minutes. N.B.: doughs that are too dry can create hydration problems and burns, while excess water in the mix considerably lengthens drying times and causes dimensional shrinkage.

## APPLICATION

Any sheaths or pipes must be covered with a steel reinforcement mesh and possibly increase the thickness of the screed. Make the level strips with the same **HERAMASS LIGHT** then start filling and then level off the levelling. While the screed is still damp, compact the product by hand or machine float. In case of high thicknesses, compact the mortar as the thickness increases. After 24 hours from the application, ventilate the rooms to allow a better and faster drying of the product. If the casting has to be interrupted, it is necessary to reinforce it by inserting 25–30 cm long metal rods into the thickness of the mortar every 30–40 cm; to ensure adhesion of the new casting, it is necessary to apply a bonding grout (grip bridge). Do not walk on the product for at least 12–24 hours depending on the temperature.

To lay ceramic coverings, in the summer it is necessary to wait for the screed to cure for about 14 days. For laying parquet or materials sensitive to humidity, it is always necessary to check the degree of drying of the screed using a calcium carbide hygrometer.



## CLEANING

Wash hands and pump equipment with plenty of clean water before product begins to set.

## ITEM OF SPECIFICATION

Realization of lightened screeds, internal and external, using pre-measured cement-based mortar ready for use, with normal setting, compliant with the **UNI EN 13813** standard of class **CT-C16-F4-A1<sub>n</sub>**, type **HERAMASS LIGHT** produced by **HERAKEM S.R.L.** The product must be applied using a straight edge and then floated and smoothed.

## WARNINGS

- The product must be applied at a temperature between +5°C and +30°C.
- Do not apply in full sun or in case of possible night frosts.
- Protect the product from rapid drying by shielding the openings; in case of strong winds, cover it with a protective polyethylene sheet or often spray water on the surface for the first 2-3 days.
- Do not apply the product on substrates subject to rising damp without installing vapor barriers (polyethylene sheet).
- Before laying wood, parquet or materials sensitive to humidity, check the residual humidity level of the substrate using a calcium carbide hygrometer.
- Do not add foreign products to the dough.

## TECHNICAL DATA \*(at +22±1°C and 55±5% R.H.)

Physical aspect	gray granular powder	Operating temperature	from -30°C to + 80°C
Bulk density (powder)	approx. 910 kg/m <sup>3</sup>	Compressive strength (after 7 days)	≥ 13 N/mm <sup>2</sup> (EN 13892-2)
Solid residue	100%	Compressive strength (after 28 days)	≥ 15 N/mm <sup>2</sup> (EN 13892-2)
Mixing water	about 16 % (about 4 liters per 25 kg bag)	Flexural strength (after 28 days)	≥ 4 N/mm <sup>2</sup> (EN 13892-2)
Dried product density	approx. 1200 kg/m <sup>3</sup>	Reaction to fire	Euroclass A1 <sub>n</sub> (EN 13501-1)
Mixing time	about 3 - 5 minutes	Thermal conductivity	0,35 W/mK (tabulated value)
Workability time	about 60 minutes*	Resistance to ageing	excellent
Walkability time	about 24 hours*	Moisture resistance	excellent
Drying time	about 1 week for every cm of thickness	Resistance to acid and alkali	poor
Waiting for the laying of ceramics	14 days*	Resistance to solvents and oils	excellent

<b>Consumption</b>	<b>approx. 11 kg/m<sup>2</sup> per cm of applied thickness</b>	<b>Packaging</b>	<b>25 kg bag</b>
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### PRODUCT FOR PROFESSIONAL USE ONLY

All the data and indications given in this technical data sheet, although resulting from laboratory tests carried out and from our direct application experiences, due to the infinite number of variables linked to the construction site conditions, are to be considered, in any case, purely indicative. Therefore, before applying the product, the user is required to establish whether it is suitable for the use envisaged by him, in the specific hygrothermal and application conditions foreseen at the time of use and, in any case, he assumes all responsibility for it. We are not liable for damage to people or things deriving from improper use of the product. We reserve the right to modify the data contained therein as a result of improvements and technical progress.