

# FASSAFLOOR LIGHT 300

## DATA SHEET

Lightweight heat insulating substrate made from cement and polystyrene



Interior/exterior flooring



Sack



By hand



By machine



## Composition

FASSAFLOOR LIGHT 300 is a premixed powder made from cement, polystyrene and specific additives to improve workability.

## Supply

- Special sacks with protection against moisture, approx. 8.7 kg

## Use

FASSAFLOOR LIGHT 300 is used as a lightweight substrate for the construction of an intermediate layer (compensation layer) used for levelling the height of the substrate and the application surface, coat the ducts and pipes, for both interiors and exteriors. Featuring a reduced static load and good thermal insulation characteristics, it is used before laying the subsequent unbonded or floating screed.

Also ideal for levelling the substrate before laying thermal or acoustic insulation.

## Substrate preparation

The application surface must be free of all foreign matter, mechanically resistant, dimensionally stable, cured, clean and absorbent. Any existing plumbing or electrical systems must be well anchored to the substrate, in order to prevent them from rising to the surfaces.

Check the reference levels and, where necessary, provide sideboards to hold the cast in place.

Moisten the substrate before application, avoiding the formation of stagnant water. Very absorbent substrates must be moistened during application.

## Mixing

For applications by hand, add 4.7-5.5 litres of clean water for each 8.7 kg sack and mix for at least 3-5 minutes until obtaining a grey, uniform and smooth mixture. Mix in an ordinary cement mixer or, for small quantities, by hand with a mechanical stirrer.

It can also be mixed using plaster sprayers, such as FASSA, PFT and the like, suitably equipped (complete Rotogirl for type D pump, D8 1.5 yellow barrel, D8 1.5 worm screw with pin, G4 mixer for insulating plasters/renderers).

Create level points or bands, then apply the product and level it using a levelling rod. If suspending the casting, FASSAFLOOR LIGHT 300 must be cut perpendicularly to the application surface; the use of a grout slurry obtained by mixing FASSACEM with AG 15 latex, diluted 1:3 with water, applying while the underlying material is still wet, will ensure perfect adhesion and avoid the formation of cracks and detachments when curing.

## Warnings

- Product for professional use.
- Always consult the safety data sheet before use.
- The fresh product must be protected against frost and quick drying. Normally a temperature of +5°C is suggested as a minimum value for application and proper hardening of the product. Below this value, setting would be delayed excessively and below 0°C the fresh or partially hardened material could be broken up by frost.
- Avoid applying FASSAFLOOR LIGHT 300 at temperatures above +30°C.
- Lay the separation layer and apply the overlying floor screed only after checking that FASSAFLOOR LIGHT 300 has dried.
- Avoid applications of FASSAFLOOR LIGHT 300 that are less than 4 cm thick.
- Avoid air draughts and strong sunlight in the first 48 hours after application (in summer it is recommended to use dark fabrics to block sunlight on all openings).
- After at least 24 hours, suitably ventilate the rooms after application until completely dry, avoiding sudden changes in temperature when heating the rooms.
- Do not apply any type of covering directly on FASSAFLOOR LIGHT 300.
- For exterior applications, always ensure a suitable waterproofing system is used.
- The product must be used on absorbent substrates.
- The use of FASSAFLOOR LIGHT 300 is not recommended when the finish has already been applied to the ceiling intrados; indeed, during drying, moisture stains or signs of percolation stains may alter/ruin the finish.

**FASSAFLOOR LIGHT 300 it must be used in its original state without the addition of foreign materials.**

## Storage

Keep dry for a period not exceeding 12 months. Once the product has expired, it must be disposed of in accordance with current legislation.

## Quality

FASSAFLOOR LIGHT 300 is subjected to accurate and constant checks in our laboratories. The raw materials used are rigorously selected and controlled.

## Technical Data

Specific gravity of the powder	aprox. 200 kg/m <sup>3</sup>
Application thicknesses	4-20 cm
Mixing water	approx. 60%
Yield	approx. 1 sack/m <sup>2</sup> for 40 mm thickness
Density of the hardened product	aprox. 300 kg/m <sup>3</sup>
pH	alkaline
Application time at +20°C	approx. 60 minutes
Thermal conductivity coefficient (EN 12667)	$\lambda = 0.09 \text{ W/m}\cdot\text{K}$
Specific heat (EN 1745)	1 KJ/Kg·K (tabulated value)
Water vapour diffusion resistance factor (EN 1745)	$\mu = 5/15$ (tabulated value)
Compressive strength after 28 days (EN 13892-2)*	$\geq 0.5 \text{ N/mm}^2$
Walkability at +20°C	24-48 h
Reaction to fire (EN 13501-1)	B <sub>fl</sub> -s1
Recycled/recovered/by-product content	The product contains some recycled/recovered/by-product. The relevant declaration is available on request.
* The specimens for mechanical resistance tests are prepared under laboratory conditions, using a specific procedure in accordance with the reference standard (EN 13892-1)	

Environmental sustainability certifications and protocols	
LEED V4.1 protocol	MR Credit – Construction and Demolition Waste Management
	EQ Credit – Low-Emitting Materials
	EQ Credit – Construction Indoor Air Quality Management Plan
BREEAM protocol	HEA 02 – Indoor Air Quality
WELL v2 protocol	X01 – Material Restrictions
	X06 – Voc Restrictions
GEV Classification	GEV EMICODE EC 1 <sup>Plus</sup> - very low emission

The above information refers to laboratory testing; it is possible that in practical applications on site these may differ considerably according to the conditions in which the material is applied. In any case the user must check that the product is suitable for the intended application, taking all responsibility for its use. Fassa reserves the right to make technical modifications without notice.

Technical specifications regarding the use of Fassa Bortolo products for structural or fire prevention applications will only be officially valid if provided by Fassa Bortolo's "Technical Service" and "Research, Development and Quality System". If necessary, contact Technical Service in your country of reference (IT: [area.tecnica@fassabortolo.com](mailto:area.tecnica@fassabortolo.com), ES: [asistencia.tecnica@fassabortolo.com](mailto:asistencia.tecnica@fassabortolo.com), PT: [assistencia.tecnica@fassabortolo.com](mailto:assistencia.tecnica@fassabortolo.com), FR: [bureau.technique@fassabortolo.fr](mailto:bureau.technique@fassabortolo.fr), UK: [technical.assistance@fassabortolo.com](mailto:technical.assistance@fassabortolo.com)).

Please note that for the aforementioned products, the assessment is required by the appointed professional, in accordance with regulations in force.