

PERLIFOC HP *ECO+*

THE FIRST BIOSUSTAINABLE FIREPROOF MORTAR

GETTING
POINTS IN
**LEED, BREEAM,
WELL**

 **PERLITA**
Y VERMICULITA



PERLIFOC HP ECO+ FIREPROOF MORTAR

Perlifoc HP Eco+ is a gypsum-based fireproof mortar for passive fire protection on structural elements and is noted for its **ecological certifications**. Perlifoc HP Eco+ has a low density thanks to the use of light fillers, making it a high-performance mortar with great benefits. It offers thermal insulation properties, in addition to having the Environmental Product Declaration (EPD).

This mortar provides fire resistance of up to 240 minutes, R240, depending on the structural element to be protected.

ADVANTAGES



- Ecological certifications for your projects with energy efficiency.
- Up to 240 minutes fire resistance with very low protection thicknesses.
- Application in a single coat, with no cracks or mesh.
- High adhesion to surfaces, with better applicability and superior finish.



TECHNICAL SPECIFICATIONS

Properties

Theoretical performance

3.5 kg/m²/cm (minimum)

Maximum thickness per coat

30 mm

Thermal conductivity

0.087 W/mK

Resistance to compression

≥ 0.2 N/mm²

Colour

Antique white

Technical

Area of Use

Interior and semi-exposure

Preparation

Onto clean and dry compatible primer
(contact the sales department)

Density

550 ± 15% kg/m³

Application temperature

Between 3 and 43°C (>3°C dew point)

Fire resistance

Up to 240 minutes

Reaction to fire

A1 in accordance with EN 13501-1

Certification

EPD, Cradle to Cradle, ETA 20/0894

Fire tests

EN 13381-3

EN 13381-4

EN 13381-5

EN 1364-1

General

Application method

Mixer/compressor spraying machine

Packaging size

17 kg bags/ 42 bag pallets



PRODUCT APPLICATION

The preparation of the surfaces to be protected with Perlifoc HP Eco+ fireproof mortar must be clean, free of pollutants and other particles that could prevent good adhesion between the product and the base. If it cannot be guaranteed that the substrate will provide sufficient adhesion, the installation of a mesh or use of an adhesion promoter is recommended to ensure its correct application.

Perlifoc HP Eco+ offers a wide range of protection for construction solutions, such as protection of steel structures, concrete structures and composite slab structures.

We recommend that it is applied using a discontinuous spraying machine, as the results are optimal in terms of density and performance. For more information on the application method, see the application manual.

Our mortar can be applied using a continuous spraying machine, although the density and consumption will be lower.

Perlifoc HP Eco+ has a rough appearance. If necessary, it can be smoothed. It can be finished with paint without affecting the fire resistance of the product.

Low temperatures should be avoided during its application for effective drying. The application temperature must be between 3 and 43°C, and the substrate temperature during the application must be at least 3°C above the dew point.

In enclosed areas with little ventilation (basements, confined spaces, etc.), an RH no greater than 60% and adequate ventilation is recommended for correct drying.



SUSTAINABILITY OF PERLIFOC HP ECO+

Our Perlifoc HP Eco+ mortar is the first mortar that has several points on the following environmental certifications, which gives the product:



LEED

The **LEED Certification** (Leadership in Energy and Environmental Design) is an **internationally recognised certification system** for sustainable buildings created by the U.S. Green Building Council.



BREEAM

BREEAM® (Building Research Establishment Environmental Assessment Methodology) is the method for evaluation and certification of sustainability in the technically most advanced buildings and is the **world leader in terms of the number of certified projects** since its creation in 1990.



WELL

The **WELL Certification** is a system based on the **measurement, monitoring and certification** of the performance of the built environment that impacts human health and well-being through core concepts and on 3 characteristics of the building: behaviour, operation and design.



CRADLE TO CRADLE

Cradle to Cradle Certified® is a globally recognised measure to deliver safer and more sustainable products made for the circular economy. The products are designed and manufactured to achieve a positive impact on people and the planet.

OTHER PRODUCTS FROM PERLITA Y VERMICULITA S.L.U.

Perlita y Vermiculita is present in the field of passive fire protection with other products with different construction solutions:

INTUMESCENT PAINT

Firefilm A6
Charflame
Firefilm FC2
Firefilm A7 (BS)

MORTARS PASSIVE PROTECTION

Perlifoc
Perlifoc HP
Perlifoc LD
Gama Pyrocrete (UL)

SEALING OF CABLE AND PIPE OPENINGS AND LINEAR JOINTS

Collars
Intumescent bags
Intumescent Putties



OFFICES

Josep Irla i Bosch, 5-7 Entr.
08034, Barcelona
Tel. +34 93 209 60 19
Fax. +34 93 240 50 51
clientes@perlityvermiculita.com

COMPANY

Perlita y Vermiculita S.L.U. is engaged in the manufacture and distribution of products for **passive fire protection** and forms part of Grupo PV, the largest group of companies in Spain dedicated to the building and industrial sectors. Accredited with **ISO 9001** and **ISO 14001**.

FACTORY

Garraf s/n. Pol. Ind. Can Prunera
08759, Vallirana (Barcelona)
Tel. +34 93 683 44 00
Fax. +34 93 683 44 01
clientes@perlityvermiculita.com

