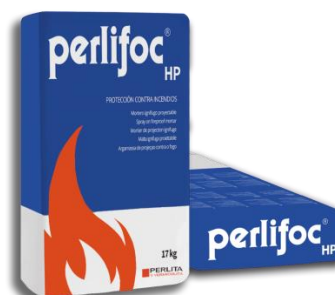


Data Sheet

Perlifoc® HP

Fire-retardant mortar for passive fire protection



Gypsum based fire resistant mortar with thermal insulation properties for passive fire protection in structural elements. The mortar presents a low density which makes it a high performance mortar.

Perlifoc HP is composed of lightweight aggregates and expanded materials, hydraulic binders, setting retarders and additives to improve mechanical application. It does not contain asbestos.

Field of application

Perlifoc HP mortar is used for the passive protection in case of steel structural elements, concrete elements, mixed slabs concrete-sheet fire and wall partition system. The mortar can be used for both H-I sections and hollow sections.

Application

Perlifoc HP mortar is applied wet with a mixer and compressor type mortar spraying machine. It can be applied manually in small areas of application or for repairing damage.

Surface preparation. The surface must be dry and free of grease, dust and dirt. When the surface does not provide sufficient guarantee of adherence, you must place a mesh or bonding bridge before spraying.

Mesh. No mesh required although its use is recommended on flanges of girders 500 mm or more in width, in pillars where only one side is sprayed, and square or rectangular metal profiles and pillars subject to high deformation.

Spraying. Mix the product with water in the spraying machine with a water/ mortar ratio of 0.8-1/1. It can be applied with continuous or discontinuous spraying machine. Apply in perpendicular on the surface once it is clean, at a distance of 20 cm approx. until the exact thickness is obtained (maximum thickness per layer of 30 mm).

In enclosed areas with little ventilation (basements, confined spaces...), for a correct drying of the mortar it is recommended that the humidity does not exceed 60% and said area is well ventilated, meaning at least 4 complete air exchanges per hour until material is dry (or for at least 2 weeks after application is finished)

Finish. Rough-finished mortar. If necessary, it can be smoothed. The finish can be painted.

Technical specifications

Base	Gypsum
Color	Old White
Apparent density	350 ± 15% Kg/m ³
pH value	12
Theoretical performance*	4,1 ± 15% Kg/m ² /cm
Application conditions:	
Mortar temperature	Between 3°C and 38 °C
Sustrate temperature	Between 3°C and 52 °C
Ambient temperature	Between 3°C and 43 °C
Fire reaction	A1
Asbestos	Asbestos free
Thermal conductivity	0,087 W/mK
Packaging	17 kg bags 42 bags/pallet

* Values obtained under laboratory conditions.

Storage and security

The Perlifoc HP material is ready for use until one year after delivery. It should be kept closed and dry.

Approvals and Certificates

Perlifoc HP is tested on steel structures according EN 13381-4, on concrete structures according to 13381-3, on concrete/profiled sheet steel composite member according EN 13381-5 and on wall partition system according to EN 1364-1, all of them in accredited laboratories.

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The information in this data sheet is based on our knowledge and experience to date and is given for information only. We are not responsible for anomalies caused by misuse of the product.