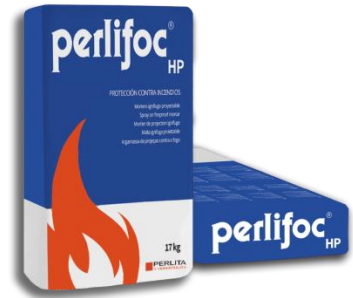


# Data Sheet

## 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 and mixed slabs concrete-sheet fire. 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).

**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 <sup>3</sup>     |
| pH value                | 12                              |
| Theoretical performance | 3.9 ± 15% Kg/m <sup>2</sup> /cm |
| Application temperature | Between 3 and 30 °C             |
| Fire reaction           | A1                              |
| Asbestos                | Asbestos free                   |
| Thermal conductivity    | 0.087 W/mK                      |
| Presentation            | 17 Kg bags<br>48 bags / pallet  |

#### 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 and on concrete/profiled sheet steel composite according EN 13381-5, 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.