



# White / Grey PROTHERM LIGHT®

**LIGHTWEIGHT PLASTER FOR THE PASSIVE FIRE PROTECTION**

## PROTHERM LIGHT® - White and Grey Lightweight plaster for the passive fire protection

<b>PRODUCT</b>	Lightweight premixed thermal insulating plaster for fire protection (REI) of masonry structure, reinforced concrete, concrete and steel structures, made of virgin EPS beads, water binders and special additives. To be mixed with water during the application. <b>Available white and grey.</b>		
<b>FIELDS OF APPLICATION</b>	<ul style="list-style-type: none"> <li>· Fireproofing protective system, specific to improve fire resistance of structural elements made of steel, brick, normal and pre-stressed reinforced concrete and on buildings for civil and industrial uses.</li> <li>· Mechanical application.</li> <li>· For indoor and outdoor use.</li> </ul>		
<b>TECHNICAL CHARACTERISTICS</b> (According to Standard UNI EN 998-1)	Density:	~ 300 kg/m <sup>3</sup>	
	Drying:	on surface: 24 hours, at +20 °C with natural ventilation	
	Chemical characteristics:	rotproof and inert material, high breathability and waterproofing properties, very good resistance to weather agents	
	Physical characteristics:	very good characteristics of mechanical resistance, high thermal insulating and acoustic properties	
	Fire reactivity:	A1	UNI EN 13501-1
	Compressive strength:	0,97 N/mm <sup>2</sup>	UNI EN ISO 12390-3
	Flexural strength:	0,35 N/mm <sup>2</sup>	UNI EN ISO 12390-5
	Thermal conductivity $\lambda_D$ :	0,079 W/mK	UNI EN 12667
Factor of resistance to water vapour diffusion $\mu$ :	9	UNI EN 1015-19:2008	
<b>APPROVALS AND CERTIFICATIONS</b>	The tests performed on the product, in accordance with UNI ENV 13381 Regulation, have obtained the following classification reports. This is the only main tool for the dimensioning of the product's thickness, necessary to guarantee the fire resistance class required.		
	<b>APPLICATION</b>	<b>REGULATION</b>	<b>ASSESSMENT REPORT N°</b>
	Reinforced concrete	EN 13381-3	ETA 18-1111
	Steel	EN 13381-4	
	Composite slabs profiled sheet + Concrete	EN 13381-5	
Horizontal membrane	EN 13381-1		
<b>CONSUMPTION / YIELD</b>	~ 3,0 kg/m <sup>2</sup> for 1 cm of thickness. Each bag ~ 6 m <sup>2</sup> for 1 cm of thickness.		



Protherm Light® Fireproofing Division



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PACKAGING AND STORAGE	<ul style="list-style-type: none"> <li>· Bag of 18 kg.</li> <li>· Pallet (protected by thermo-wrapping film): n° 40 bags (on demand 44/48).</li> <li>· It is recommended the use within 6 months from the packaging. The product maintains the technical characteristics for over 12 months if conveniently stored (in a dry and fresh place, protected from frozen, water and direct sunlight). It is recommended to use suitable protection devices.</li> </ul>
SUPPORT PREPARATION	The preparation must be suitable to guarantee a support complies to what reported in the classification report inherent to the type of element on which will be applied.
APPLICATION	Mechanical application, using a sprayer, with suitable plastering machine (type PFT, G4, G5 or similar, always opportunely equipped), with one or more coats, according to the thickness to be realized. The surfaces to be treated must be coated without interruption of continuity, with the prescribed thickness. To improve the covering drying, we recommend to work in well-ventilated places and with ambient and support temperatures of at least +5 °C and not over +35 °C. For thicknesses less than 20 mm, the product application can be realized with an unique application; for thicknesses over 20 mm are necessary more applications, according to the total thickness. <i>For more detailed information, consult the Application Manual or contact our Technical Department.</i>
WARNINGS	<ul style="list-style-type: none"> <li>· Do not apply under the direct sunlight and rain. Apply with temperatures between +5 °C and +35 °C.</li> <li>· Do not apply if there is risk of frost.</li> <li>· Do not mix with any other products.</li> <li>· Equipments cleaning: with water, immediately after use.</li> <li>· During the change of each pallet, verify the quantity of mixing water.</li> </ul>
<p>All the indications provided in this technical data sheet are purely approximate and not binding for legal purpose. The data listed has been gathered from laboratory tests and it hence follows that in practical applications on building sites the final characteristics of the products may be subject to substantial variations depending on the meteorological conditions and the installation. The user must always check suitability of the product for its specific use, undertaking all liability implicit in and deriving from use of the product, as well as comply with all methods and instructions for use generally referable to "workmanlike" execution. Edilteco S.p.A. reserves the right to change the contents of this mechanical data sheet on its final judgements. The spreading of this data sheet through any media, supersedes and cancels the validity of any other technical data sheet previously published.</p>	



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