



# ISOLCAP LIGHT 110

PRE-MIXED, ULTRA-LIGHTWEIGHT  
AND THERMAL INSULATING SUBFLOOR

## ISOLCAP LIGHT 110

Pre-mixed, ultra-lightweight and thermal insulating subfloor

COMPOSITION	Selected hydraulic binders pre-dosed at 110 kg/m <sup>3</sup> , virgin expanded polystyrene beads, perfectly spherical with high thermal insulation capacity ( $\emptyset \leq 2$ mm), enriched with a special E.I.A. product that ensures perfect mixing, optimal pumpability, and homogeneous distribution of the beads in the mixture, along with special additives.
PACKAGING AND STORAGE	<ul style="list-style-type: none"> <li>· Bags of 70 L yield.</li> <li>· Pallets of 44 bags.</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 frost, water and direct sunlight). It is recommended to use suitable protection devices.</li> </ul>
FIELDS OF APPLICATION	Thermal insulating fluid mortar to be applied on horizontal or sloping surfaces at different thickness, and in partition walls.
CONSUMPTION / YIELD	1 m <sup>3</sup> of lightweight thermal insulating mortar is obtained with 14 bags.
SURFACE PREPARATION	<ul style="list-style-type: none"> <li>· Thoroughly clean the laying surface removing residues and dust.</li> <li>· Prepare the leveling points.</li> <li>· Moisten the laying surface (if absorbent) taking care not to create puddles.</li> <li>· Highly absorbent surfaces (such as hollow brick, etc.): proceed to the perfect cleaning and dusting removal from the laying surface. Apply an adhesion promoter grout and an absorbing reductor composed of cement / Edilstik / clean water (Edilstik / water ratio 1:1). After drying, wet the laying surface and proceed to lay the lightweight screed. Wet the surface as you proceed with the application of the lightweight screed.</li> </ul>
APPLICATION	<p><b>For the detailed methods of use and application contact the Edilteco Technical Department.</b></p> <p><b>It can be mixed and pumped on site with:</b></p> <ul style="list-style-type: none"> <li>· Single-phase or three-phase plastering machine, correctly fitted. It is obligatory to contact the <i>Edilteco Technical Department</i> or consult "<i>Isolcap Installation Manual</i>".</li> <li>· Politerm® Machine (see Edilteco equipment).</li> <li>· Isolcap Machine (see Edilteco equipment).</li> </ul>
WARNINGS	<ul style="list-style-type: none"> <li>· Do not apply with temperatures under +5 °C or over +35 °C or under the direct sunlight. If the application is made under the direct sunlight, necessary precautions must be taken (e.g. mesh or similar that cover the scaffolding).</li> <li>· It is recommended to lay edge strips of acoustic insulation higher than the floor covering.</li> <li>· <b>Minimum thickness:</b> <ol style="list-style-type: none"> <li>a) <i>Absorbent surfaces:</i> 5 cm. In case of sub-thickness consult "<i>Isolcap Installation Manual</i>" or contact the <i>Edilteco Technical Department</i>.</li> <li>b) <i>Non-absorbent surfaces:</i> consult "<i>Isolcap Installation Manual</i>" or contact the <i>Edilteco Technical Department</i>.</li> </ol> </li> <li>· During the change of each pallet, verify the quantity of water into the mixture.</li> <li>· <b>In case of heavy walkability, protect the screed.</b></li> </ul>



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COMPANY WITH  
QUALITY SYSTEM  
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ISO 9001

TECHNICAL CHARACTERISTICS	Dry density:	110 kg/m <sup>3</sup>	-
	Specific weight (dry mortar):	approx. 130 kg/m <sup>3</sup>	-
	Thermal conductivity $\lambda_0$ :	0,041 W/mK	UNI EN 12667
	Compressive strength:	0,528 N/mm <sup>2</sup>	UNI EN 1015-11
	Flexural strength:	0,12 N/mm <sup>2</sup>	UNI EN 1015-11
	Permeability to water vapour $\mu$ :	5,1	UNI EN ISO 12572
	Specific heat kJ/kgK:	1,0	UNI EN 1745
	Moisture resistance:	rotproof	-
	Residual humidity after 28 days:	< 2% in volume (5 cm thickness, absorbent surface)	-
	Fire reaction class:	A2-s1,d0	EN 13501-1

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.



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