



# ISOLCAP

## Premixed lightweight thermal insulating substrate

<b>+ packaging and storage:</b>	<ul style="list-style-type: none"> <li>➤ bags of 70 l yield</li> <li>➤ pallets of 40 bags.</li> <li>➤ storable for at least 6 months in a cool and dry place away from frost and water.</li> </ul>
<b>+ composition:</b>	<p>selected water binders prebatched for 250 kg/m<sup>3</sup> - perfectly spherical virgin expanded polystyrene beads with high thermal insulation power (3-6 mm Ø), mixed with special E.I.A. additive which allows a perfect mix, excellent pumping and homogeneous distribution of the beads in the mix - special additives.</p>
<b>+ fields of application:</b>	<ul style="list-style-type: none"> <li>➤ lightweight thermal insulating substrates (with or without gradient formation),</li> <li>➤ lightening and filling castings,</li> <li>➤ roof thermal insulation (pitched or flat roofs with or without gradient formation). Suitable for direct laying of prefabricated waterproofing mantles (hot bituminous, cold bituminous, cold synthetic) or solvent-free liquid sheaths.</li> </ul>
<b>+ consumption/yield:</b>	<p>1 m<sup>3</sup> of lightweight thermal insulating mortar is obtained with 13-14 bags (depending on the equipment used and the accuracy of the mix).</p>
<b>+ surface preparation:</b>	<ul style="list-style-type: none"> <li>➤ thoroughly clean the laying surface removing any fragments and vacuuming the dust.</li> <li>➤ prepare the level points</li> <li>➤ moisten the laying surface (if absorbent) taking care not to create puddles.</li> </ul>
<b>+ application:</b>	<ul style="list-style-type: none"> <li>➤ <b>can be mixed with:</b> <ul style="list-style-type: none"> <li>☒ drill with whisk,</li> <li>☒ cement mixer,</li> <li>☒ mixer type "turbomalt".</li> </ul> </li> <li>➤ <b>can be mixed and pumped on site with:</b> <ul style="list-style-type: none"> <li>☒ <b>Politerm Machine</b> (see Edilteco equipment),</li> <li>☒ truck mixer and concrete pump,</li> <li>☒ pump type "turbosol".</li> </ul> </li> <li>➤ hydrate with clean water in a proportion of 11-13 l per bag.</li> <li>➤ mix for at least 5 minutes and not more than 10 minutes.</li> </ul>
<b>+ warnings:</b>	<ul style="list-style-type: none"> <li>➤ do not apply with temperatures inferior than +5°C or under the direct light of the sun or with temperatures higher than +35°C. if the application is made under the direct light of the sun, necessary precautions must be taken (e.g. net or similar that covers the scaffolding).</li> <li>➤ minimum thickness: 4 cm.</li> <li>➤ it is recommended to lay edge strips of acoustic insulation wider than the floor covering.</li> <li>➤ for the detailed methods of use and application consult the "<b>Application Manual</b>", (available on request) or contact the Edilteco Engineering Department.</li> </ul>
<b>+ technical characteristics:</b>	<ul style="list-style-type: none"> <li>➤ dry density: 250 kg/m<sup>3</sup></li> <li>➤ specific weight (dry mortar): about 265 kg/m<sup>3</sup></li> <li>➤ moisture resistance: rotproof.</li> <li>➤ impact-sound insulation to 500 Hz: 14 dB (with a 5 cm. thickness).</li> <li>➤ compressive strength: 0.83 N/mm<sup>2</sup></li> <li>➤ resistance to water vapour diffusion <math>\mu</math>: 11.5</li> <li>➤ thermal conductivity <math>\lambda</math>: 0.067 W/m<sup>2</sup>K</li> <li>➤ residual moisture after 28 days (5 cm thickness): &lt; 1% in volume</li> </ul>

All the indications provided in this technical data sheet are purely approximate and not binding for legal purposes. 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 the methods and instructions for use generally referable to "workmanlike" execution. Edilteco S.p.A. reserves the right to change the contents of this technical data sheet on its final judgement. The spreading of this data sheet through any media, supersedes and cancels the validity of any other technical data sheet previously published.