



# Isolcap fein

PREMIXED FINE-BEAD LIGHTWEIGHT  
THERMAL INSULATING  
SUBSTRATE

<b>PRODUCT:</b>	premixed lightweight thermal insulating substrate
<b>COMPOSITION:</b>	selected water binders prebatched for 300 kg/m <sup>3</sup> , perfectly spherical virgin expanded polystyrene beads with high thermal insulation power (2 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.
<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>FIELDS OF APPLICATION:</b>	<ul style="list-style-type: none"> <li>• single-layer lightweight thermal insulating screeds for floor coverings laid with glue (see notes on page 2). Not suitable for direct laying of resilient floor coverings.</li> <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>	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).
<b>SURFACE PREPARATION:</b>	<ul style="list-style-type: none"> <li>• thoroughly clean the laying surface removing any fragments and vacuuming powders.</li> <li>• lay Piano Zero Guides (single-layer screeds) or prepare the level points (intermediate levelling substrates).</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>Isolcap Machine (see Edilteco equipment),</b></li> <li>- plaster sprayer (see notes on Page 2).</li> </ul> </li> <li>• hydrate with clean water in proportion of 10-11 l per bag.</li> <li>• mix for at least 5 minutes and not more than 10 minutes (except when using a plaster sprayer). Use the mixed material within 15 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 sun, necessary precautions must be taken (e.g. net or similar that cover the scaffolding).</li> <li>• it is recommended to lay edge strips of acoustic insulation wider than the floor covering.</li> <li>• 3 minimum tickness: <ul style="list-style-type: none"> <li>a) absorbant surface: minimum 5cm. In case of lower tickness please consult "The Application Manual" or contact the Edilteco Engineering Department.</li> <li>b) unabsorbent surface: consult "The Application Manual" or contact the Edilteco Engineering Department.</li> </ul> </li> <li>• for the detailed methods of use and application consult "The Application Manual", (available on request) or contact the Edilteco Engineering Department.</li> </ul>

<b>TECHNICAL CHARACTERISTICS:</b>	• dry density:	300 kg/Mc	
	• specific weight (dry mortar):	approx. 315 kg/Mc	
	• moisture resistance:	rotproof	
	• impact sound insulation to 500 Hz:	21,5 dB (with mattress)	
	• compressive strength (UNI EN 1015 11:2007):	1,61 N/mm <sup>2</sup>	
	• flexural strength (UNI EN 1015-11:2007):	0,95 N/mm <sup>2</sup>	
	• resistance to water vapour diffusion μ:	12,0	
	• τηερμαλ χονδρυχιπειψ λ:	0,087 W/m <sup>2</sup> K	
	• residual moisture after 28 days (5 cm thickness):	< 1%	
	<b>drying time for direct laying of floor coverings: depending on the laying surface, ambient and meteorological conditions</b>		
• ceramic tiles - stoneware tiles - clinker tiles:	after approx. 96 hours		
• floating parquet:	after approx. 7 days		
<b>SPECIAL PROCESSING AND APPLICATIONS:</b>	<ul style="list-style-type: none"> <li>• <b>mixing and pumping with plaster sprayer:</b> <ul style="list-style-type: none"> <li>- fit the plaster sprayer with an expansion tank, screw and mixer specifically for premixed products based on polystyrene beads.</li> <li>- do not use a compressor.</li> <li>- detach the end nozzle from the material delivery tube.</li> <li>- adjust the flow meter to obtain a mortar with a creamy and homogeneous consistency.</li> </ul> </li> </ul>		
	<ul style="list-style-type: none"> <li>• <b>single-layer screed for direct laying of floor coverings (specific operations):</b></li> </ul>		
	operation	Laying / Floor covering	
		-laying with glue of: ceramic, stoneware, clinker and terracotta tiles -floating laying of: parquet	laying with glue of: parquet
	Piano Zero guide laying:	<b>yes</b>	<b>yes</b>
	floating with "blade" float:	<b>yes</b>	<b>yes</b>
	surface sanding with electrical brush fitted with sandpaper disks:	<b>recommended</b>	<b>recommended</b>
	thin-bed surface smoothing with mix based on cement and glue:	<b>recommended</b> when there is heavy foot traffic before laying the floor covering	<b>no</b>
	surface smoothing with RS Malta L - minimum thickness 5 mm and in any case depending on the type of wood and dimension of the wooden strips:	<b>no</b>	<b>obligatory</b>
	<p>a) Minimum screed thickness with Isolcap Speed 5 cm, even between the highest point of any technological systems and the lowest point of the flooring.</p> <p>b) Unabsorbant surface: consult the "Application Manual" or contact the Edilteco Engineering Department.</p> <p>Always respect the detailed methods of use and application given in the "Application Manual of Isolcap" (available on request) or contact the Edilteco Engineering Department.</p>		

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.

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