



# ARIETE 250 F®

PRE-MIXED, LIGHTWEIGHT  
AND THERMAL INSULATING SUBFLOOR

## ARIETE 250 F®

Pre-mixed, lightweight and thermal insulating subfloor

COMPOSITION	Selected binders pre-batched at 250 kg/m <sup>3</sup> , perfectly spherical virgin expanded polystyrene beads with high thermal insulating properties (Ø 2 mm), mixed with the special E.I.A. additive which allows a perfect mixing, excellent pumping and homogeneous distribution of the beads in the mix, and 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	<ul style="list-style-type: none"> <li>· Lightweight thermal insulating subfloor (with or without falls).</li> <li>· Lightening and filling castings.</li> <li>· Thermal insulation of roofing (pitched or flat roofs with or without falls). Suitable for direct laying of pre-fabricated waterproofing membranes (hot bituminous, cold bituminous, cold synthetic) or solvent-free liquid sheaths.</li> </ul>
CONSUMPTION / YIELD	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).
SURFACE PREPARATION	<ul style="list-style-type: none"> <li>· Thoroughly clean the laying surface removing residues and dust.</li> <li>· Prepare the level 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 laying the lightweight screed. Wet the surface as you proceed with the application of the lightweight screed.</li> </ul>
APPLICATION	<p><b>It can be mixed with:</b></p> <ul style="list-style-type: none"> <li>· Drill with whisk.</li> <li>· Cement mixer.</li> <li>· Horizontal mixer.</li> </ul> <p><b>It can be mixed and pumped on site with:</b></p> <ul style="list-style-type: none"> <li>· Properly set up plastering machine.</li> <li>· Politerm® Machine (see Edilteco equipment).</li> <li>· Isolcap Machine (see Edilteco equipment).</li> <li>· Truck mixer and concrete pump.</li> <li>· Screeds pump.</li> </ul> <p>Hydrate with clean water in proportion of 7 - 8 L per bag. Mix for at least 5 minutes and not more than 10 minutes.</p>
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) Absorbent surfaces: 5 cm. In case of sub-thicknesses, refer to the relevant "Installation Manual - Ariete" or contact the Edilteco Technical Department.</li> <li>b) Non-absorbent surfaces: refer to the relevant "Installation Manual - Ariete" or contact the Edilteco Technical Department.</li> </ol> </li> <li>· For detailed usage and application instructions, refer to the relevant "Installation Manual - Ariete".</li> </ul>



TECHNICAL CHARACTERISTICS	Dry density:	250 kg/m <sup>3</sup>	-
	Specific weight (dry mortar):	approx. 265 kg/m <sup>3</sup>	-
	Moisture resistance:	rotproof	-
	Acoustic performance $\Delta L_w$ :	14 dB *	UNI EN 12354-2
	Compressive strength:	0,83 N/mm <sup>2</sup>	UNI 6132
	Flexural strength:	0,46 N/mm <sup>2</sup>	UNI EN 13892-2
	Permeability to water vapour $\mu$ :	6,9	UNI EN ISO 12572
	Thermal conductivity $\lambda_0$ :	0,065 W/mK	UNI EN 12667
	Specific heat capacity kJ/kgK:	1,0	UNI EN 1745
	Residual moisture after 28 days:	< 2% in volume (5 cm thick, 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.

\*Value obtained in laboratory with 5 cm of Ariete 250 F® + 5 cm of screed.

LEED CRITERIA		
SECTION	CREDITS	TECHNICAL DESCRIPTION
Energy and Atmosphere (EA)	Prerequisite 2	Minimum energetic performances
	Credit 1	Optimization of the energetic performances
Material and Resources (MR)	Credit 5	Extracted materials, processed and produced at a limited distance



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COMPANY WITH  
QUALITY SYSTEM  
CERTIFIED BY DNV  
ISO 9001