



ARIETE 825 CE

PREMIXED, CE CERTIFIED, LIGHTWEIGHT
AND THERMAL INSULATING SCREED

ARIETE 825 CE Premixed, CE certified, lightweight and thermal insulating screed	
COMPOSITION	Special hydraulic binders and selected aggregates, pre-mixed at 825 kg/m ³ , virgin expanded polystyrene beads perfectly spherical with high thermal insulation properties (Ø 2 mm), coated by the special E.I.A. additive, which ensures a perfect mixing, optimal pumpability, and homogeneous distribution of the beads within the mixture, and special additives.
PACKAGING AND STORAGE	<ul style="list-style-type: none"> · Bags of 45 L yield. · Pallets of 40 bags. · 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.
FIELDS OF APPLICATION	<ul style="list-style-type: none"> · Lightweight thermal insulation screeds for finishing floors applied with adhesive (<i>see notes in section 2^o page</i>). Not suitable for the direct installation of resilient flooring. · Lightweight and thermal insulating leveling subfloors (with or without slope formation). · Lightweight and filling casts. · Thermal insulation for roofing (on sloped or flat roofs, with or without slope formation). Suitable for direct installation of prefabricated waterproofing membranes (hot bituminous, cold bituminous, cold synthetic) or solvent-free liquid coatings.
CONSUMPTION / YIELD	Approx. 0.22 bags/m ² for a thickness of 1 cm.
SURFACE PREPARATION	<ul style="list-style-type: none"> · Carefully clean the surfaces by removing debris and vacuuming dust. · Lay the Piano Zero Guides (single-layer screeds) or prepare the leveling points (intermediate leveling screeds). · Moisten the surfaces (only if absorbent), being careful not to create water puddles. · <i>Highly absorbent surfaces (such as bricks, large tiles, etc.):</i> thoroughly clean and de-dust the surfaces. Apply a bonding slurry to reduce absorption, made of cement / Edilstik / clean water (Edilstik / water ratio 1:1). After drying, moisten the surfaces and proceed with laying the lightweight screed. The moistening should be done progressively as the lightweight screed is laid.
APPLICATION	<p>Mixable using:</p> <ul style="list-style-type: none"> · Mixer drill. · Cement mixer. · Mixer like "Turbomalt". <p>Mixable and pumpable to the floor using:</p> <ul style="list-style-type: none"> · Politerm® Machine (<i>see Edilteco equipment</i>). · Isolcap Machine (<i>see Edilteco equipment</i>). · Plastering machine (<i>see notes on page 2</i>). · Concrete mixer truck and concrete pump. · Pump like "Turbosol". <p>Hydrate with clean water at a rate of 7 - 8 L per bag. Mix for at least 5 minutes and no more than 10 minutes (<i>excluding when using a plastering machine</i>).</p>
WARNINGS	<ul style="list-style-type: none"> · Do not apply at temperatures below +5 °C or under direct sunlight, or at temperatures above +35 °C. If the application is done under direct sunlight, take necessary precautions (such as a scaffolding cover mesh or other measures).



WARNINGS	<ul style="list-style-type: none"> It is recommended to lay perimeter sound-absorbing strips with a height greater than that of the finished flooring. Minimum thicknesses: <ul style="list-style-type: none"> a) <i>Absorbent surfaces:</i> 5 cm. In case of sub-thicknesses, contact the <i>Edilteco Technical Department</i>. b) <i>Non-absorbent surfaces:</i> contact the <i>Edilteco Technical Department</i>. During the change of each pallet, check the mixing water quantity. 		
TECHNICAL CHARACTERISTICS	Dry density:	825 kg/m ³	-
	Specific weight (dry mortar):	approx. 815 kg/m ³	-
	Thermal conductivity λ_D :	0,176 W/mK	UNI EN 12667
	Compressive strength:	$\geq 5,0$ N/mm ² (C5)	UNI EN 13813
	Flexural strength:	$\geq 1,0$ N/mm ² (F1)	UNI EN 13813
	Water vapor permeability coefficient μ :	14,0	UNI EN ISO 12572
	Impact sound reduction level ΔL_w :	19 dB *	UNI EN 12354-2
	Moisture resistance:	rotproof	-
<p>Drying times for direct laying of finished floorings (screed thickness 5 cm, absorbent surface, and climatic conditions of +20 °C and 50% RH) depending on the actual conditions of the substrate, environment, and weather:</p> <ul style="list-style-type: none"> Ceramic, gres, clinker: approximately after 6 days. Floating parquet: approximately after 12 days. 			
SPECIAL PROCESSING AND APPLICATIONS	<p>Mixing and pumping with plastering machine 220 V and 380 V:</p> <ul style="list-style-type: none"> Equip the plastering machine with a specific tank, screw, and mixer for premixed products based on polystyrene beads. Keep the hopper always full. It is recommended to use a hopper height extension. Do not use the compressor. Remove the final nozzle from the material feeding tube. Adjust the flow meter to achieve a creamy and homogeneous mortar consistency. 		
	Single-layer screeds for direct laying of finished floorings (specific operations):		
	OPERATION	LAYING / FINISHED FLOORINGS:	
		With adhesive: Ceramic / gres / clinker / terracotta Floating: Wooden parquet	With adhesive: Wooden parquet
	Piano Zero Guides laying:	yes	yes
	Levelling with levelling bar "blade" type:	yes	yes
	Surface abrasion by electric brush equipped with abrasive discs:	recommended	recommended
	Low-thickness levelling with cement-based mix and cementitious adhesive:	recommended <i>in case of heavy foot traffic, before laying the finished flooring</i>	no
Surface levelling with Kronos Autoliv - minimum thickness 5 mm, depending on the type and size of the strips:	no	obligatory	
<p>All the information provided in this technical datasheet is purely indicative and not legally binding. The data reported is based on laboratory tests, and as a result, in practical applications on-site, the final characteristics of the products may undergo substantial variations depending on weather conditions and installation methods. The user must always verify the suitability of the product for its specific use, assuming all responsibility inherent and derived from its use; in addition to adhering to all application methods and usage standards generally referred to as "best practices." Edilteco S.p.A. reserves the right to modify the content of this technical datasheet at its sole discretion and without prior notice. The distribution, by any means, of this datasheet supersedes and annuls the validity of any other previously published technical datasheet.</p>			

* Value calculated with 5 cm of Ariete 825 CE and Fonotech 5.