



ISOLTECO® 230

**PRE-MIXED PLASTER,
PROVIDING EXCELLENT THERMAL INSULATION**

ISOLTECO® 230 Pre-mixed plaster, providing excellent thermal insulation				
PRODUCT	Pre-mixed plaster based on pre-dosed selected hydraulic binders, virgin expanded polystyrene beads perfectly spherical with consistent granulometry, enriched with a special E.I.A. additive and special additives.			
PACKAGING AND STORAGE	<ul style="list-style-type: none"> · Bag of 60 L yield. · Pallet of 44 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"> · Thermal insulation of external walls. · Thermal insulation of internal walls. · Thermal insulation of ceilings. · Elimination of thermal bridges. · Protection of the walls from rain. 			
PREROGATIVES	<ul style="list-style-type: none"> · For internal and external use (once applied and "cured" does not have problems in case of rain, moisture and low / high temperatures). · The surface can be left rough or be finished with smoothing or finishing mortars. · It strongly speeds up the application time of the final smoothing. · It guarantees a high thermal insulation. 			
CONSUMPTION / YIELD	THICKNESS cm		YIELD OF 1 BAG m ²	
	2 cm	3,00 m ²	7 cm	0,86 m ²
	3 cm	2,00 m ²	8 cm	0,75 m ²
	4 cm	1,50 m ²	10 cm	0,60 m ²
	5 cm	1,20 m ²	12 cm	0,50 m ²
6 cm	1,00 m ²	-	-	
SUPPORT PREPARATION *	<ul style="list-style-type: none"> · The surface must be clean, sufficiently solid and absorbent, free of detached parts, dust and residual insulating materials. · Before the application of Isolteco® 230, moisten the surface following the method suitable to the type of surface. · In case of low absorbing surface, apply on the entire surface an adhesion promoter latex Edilstik type and then apply Isolteco® 230 on the still wet surface ("fresh on fresh"). · In case of very low absorbing surface or of high absorbing surface, apply on the entire surface a scratch coat composed of cement grout and sand with Edilstik, or use a ready to use scratch coat. · Make the intermediate strips using exclusively Isolteco® 230. Otherwise, wooden or metal strips can be used too. After the application of Isolteco® 230, the strips will have to be carefully removed and the spaces left will have to be filled and levelled with Isolteco® 230. The intermediate strips have to be positioned not more than 2 m apart. · The corners and the openings (doors, windows, etc.) have to be prepared by applying steel staff angles to be fixed with cement or thermal mortar. It is also possible to make corners, during the application of Isolteco® 230, with wooden boards. This method makes the finished corners less resistant to impacts. 			

APPLICATION *	<p>Application with plastering machine (recommended): it is essential to prepare the plastering machine with a turbo or mini-turbo, helical mixer with solid screw, stator specific for lightweight mortars, long pitched screws and Ø 14 mm cap or nozzle.</p> <p>Manual application: mix with a cement mixer or with an horizontal mixer, hydrate the content of one bag with approximately 9 - 10 L of clean water. Mix for at least 5 minutes and not more than 10 minutes.</p> <p>Application:</p> <ul style="list-style-type: none"> · Apply a first coat of about 1 cm of Isolteco® 230. Wait for at least 4 hours [but not more than 24] so that the first coat can hold, so apply the second coat [of maximum 2.5 - 3 cm]. If a further coat is necessary, repeat the same procedure. Total admitted application thickness: minimum 2 cm - maximum 20 cm. · After 24 - 96 hours from the application of Isolteco® 230 [according to weather conditions and the applied thickness], scrape the surface with a scraping knife, trowel or float. · Not earlier/before than 7 days from the application of Isolteco® 230, and only after its the complete drying, apply smoothing plaster prepared with Ecap® ADP. · To increase the resistance to impacts, it is recommended the addition of a fibreglass mesh [140 gr/m²] in the smoothing mortar. The thickness of the smoothing mortar must mandatory be of 4 - 5 mm. <p>Finishing to be painted: after the curing of the base plaster, apply Ecap® ADP. Once matured, proceed with the application of the breathable paint Ecap® STP Silicate Paint or Ecap® SP Silicone Paint, after treating with Ecap® F primer. Breathable lime-based paints are also compatible.</p> <p>Coloured finishing: it may receive the application of coloured breathable finishing in thickness, type Ecap® SC Silicone Colour or Ecap® STC Silicate Colour to directly apply on the base plaster, after the treatment with Ecap® F primer.</p>
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WARNINGS	<ul style="list-style-type: none"> · Do not apply under the direct sunlight or with temperatures higher than +35 °C. If the application is made under direct sunlight, necessary precautions must be taken (e.g. mesh or similar that covers the scaffolding). · Do not apply under the rain, with temperature below +5 °C or with frost risk. In any case, do not add ant freezing products. · Apply with relative humidity between 45% and 80%. Do not apply with a too low relative humidity. · For the detailed methods of use and application consult the "Isolteco® - Application Manual" or contact <i>Edilteco Technical Department</i>.
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TECHNICAL CHARACTERISTICS	Dry density:	230 kg/m ³	-
	Specific weight (dry mortar):	approx. 245 kg/m ³	UNI EN 1015-10
	Fire reaction class:	A2-s1,d0	EN 13501-1
	Adherence:	0,1 N/mm ²	UNI EN 1015-12
	Water absorption by capillarity:	0,1 kg/m ² s ^{0,5} W1	UNI EN 1015-18 UNI EN 998-1
	Coefficient of water vapour permeability μ:	9	UNI EN 1015-19
	Thermal conductivity λ ₀ :	0,063 W/mK	UNI EN 12667
	Compressive strength:	1,28 N/mm ²	UNI 6132
	Flexural strength:	0,38 N/mm ²	UNI 6133
	Sound insulation capacity on wall R _w :	42 dB **	UNI EN ISO 140-3
	Increase of sound insulating power ΔR _w :	7 dB **	UNI EN ISO 140-16
	Specific heat kJ/kgK:	1,0	UNI EN 1745
Durability [frost / thaw]:	valued	UNI EN 998-1	

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.

* For more detailed information consult the "Isolteco® - Application Manual" or contact *Edilteco Technical Department*.
 ** Isolteco® 230, thickness 6 cm, applied on cellular blocks wall 8 cm with a layer of cement plaster thickness 1,5 cm on the opposite side.

LEED CRITERIA		
SECTIONS	CREDITS	TECHNICAL DESCRIPTIONS
Energy and Atmosphere (EA)	Prerequisite 2	Minimum energetic performances
	Credit 1	Optimization of the energy performances
Materials and Resources (MR)	Credit 5	Extracted, processed and produced at a limited distance materials [regional materials]

