

ISOLTECO® LIGHT 110

READY TO USE PLASTER WITH HIGH THERMAL INSULATING PROPERTIES

ISOLTECO® LIGHT 110
Ready to use plaster with high thermal insulating properties

PRODUCT	Ready to use plaster, for mechanical and manual application, based on selected pre-batched binders, perfectly spherical virgin expanded polystyrene beads mixed with special E.I.A. additive.	
PACKAGING AND STORAGE	· Bag of 74 qt yields. · Pallet 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 frozen, water and direct sunlight). It is recommended to use suitable protection devices.	
FIELDS OF APPLICATION	· External thermal insulation. · Inside walls thermal insulation. · Ceiling thermal insulation. · Elimination of thermal bridges. · Protection of the walls from rain.	
PREROGATIVES	· For indoor and outdoor use (once applied and "maturated" it doesn't have problems in case of rain, moisture and low/high temperatures). · It can stay at the raw estate or it can be finished with almost every kind of smoothing and finishing. · It strongly speeds the application time of the finishing smooth (it speeds the construction site). · It guarantees a high thermal insulation.	
CONSUMPTION / YIELD	THICKNESS: 13/16" 1"+3/16" 1"+9/16" 2" 2"+3/8" 2"+3/4"	YIELD FOR 1 BAG: approx. 37.7 ft^2 approx. 24.7 ft^2 approx. 18.8 ft^2 approx. 15 ft^2 approx. 12.4 ft^2 approx. 10.7 ft^2
SUPPORT PREPARATION *	· The surface must be cleaned, sufficiently solid and absorbent, free from detached parts, dust and residuals insulating materials. · Before the application of Isolteco® Light 110, moisten the surface in the suitable ways according to the type of surface. · In case of **low absorbing surface**, apply on the entire surface an adhesion promoter latex, Edilstik type, and afterwards apply Isolteco® Light 110 on the still wet surface (fresh on fresh). · In case of **very scarce absorbing surface or of high absorbing surface**, apply on the entire surface a scratch coat composed by a cement mortar and mortar prepared with Edilstik or apply the ready-mix scratch coat cement plaster (type Drymix Spritz). · Make the intermediate strips using exclusively Isolteco® Light 110. Otherwise, wooden boards or beveled steel strips can be used too. After the application of Isolteco® Light 110, the strips will have to be carefully removed and the spaces left will have to be filled and leveled with Isolteco® Light 110. The intermediate strips have to be positioned not more than 6.6 ft apart. · The corners and the openings (doors, windows, ...) will have to be prepared by applying steel staff angles of the type that has to be fixed by cement mortar means or the flag staff angles type. It is also possible to make corners, during the application of Isolteco® Light 110, with wooden boards. This method makes the finished corners less resistant to impacts.	

Thermal Insulation & Chemicals Division

EDILTECO group

Edilteco S.p.A. Via dell'Industria, 710 . 41038 San Felice sul Panaro (MO) Italy
Ph. +39 0535 82161 . Fax +39 0535 82970 . **www.edilteco.com** I **info@edilteco.com**

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APPLICATION *	**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, log-pitched screws and 9/16" diameter cap or nozzle. The rise is recommended. Always keep the loading hopper filled. **Manual application:** contact the *Edilteco Technical Department*. **Application:** · Apply a first coat of about 3/8" of Isolteco® Light 110. Wait at least 4 hours (but not more than 24 hours) so that the first coat can hold, so apply the second coat (of maximum 63/64" - 1"+3/16"). If a further coat is necessary, repeat the same procedure. Total admitted application thickness: minimum 13/16" - maximum 4"+3/4". · After 24 - 96 hours from the application of Isolteco® Light 110 (according to weather conditions and the applied thickness), scrape the surface with a scraping knife, trowel or float. · Not before 7 days from the application of Isolteco® Light 110, and only after its the complete drying, apply the smoothing plaster prepared with Isolteco® Rasatura Monocap. · Drowning a fiberglass scrim covered with an antalkaline resin of 0.03 lb/ft^2 in the rasatura layer, the maximum thickness must be between 5/32" - 13/64". **Finishing to be painted:** after the curing of the base plaster, lay a thin layer of Drymix Fein 14.0 or Isolteco® Rasatura Monocap. After the curing, apply the breathable paint Ecap® STP Silicate Paint or Ecap® SP Silicone Paint, after the treatement with Ecap® F Fixative primer. Breathable lime-based paints are compatible. **Coloured Finishing:** it may receive the application of coloured breathable finishing in thickness: Ecap® SC Silicone Colour or Ecap® STC Silicate Colour to directly apply on the base plaster, after the treatement with Ecap® F Fixative primer.		
WARNINGS *	· Do not apply under the direct sunlight or with temperatures higher than 95 °F. If the application is made under direct sunlight, necessary precautions must be taken (e.g. net or similar that covers the scaffolding). · Do not apply under the rain, with temperature below 41 °F or with frost risk. In any case, do not add anti-freezing products. · Apply with relative humidity between 45% and 80%. Do not apply with a too low relative humidity.		
TECHNICAL CHARACTERISTICS	Dry density:	6.87 lb/ft^3	-
	Specific weight (dry mortar):	approx. 8.12 lb/ft^3	UNI EN 1015-10
	Fire reactivity:	A2,s1-d0	UNI EN 13501-1
	Adhesion:	14.5 psi	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:	4,6	UNI EN ISO 12572
	Thermal conductivity (K-Value):	0,043 W/mK	UNI EN 12667
	Compressive strength:	77 psi	UNI EN 826
	Flexural strength:	17 psi	UNI EN 1015-11
	Specific heat:	1000 J/kgK	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.

* Detailed indications: consult the *"Isolteco® Range - Application manual"* or contact the *Edilteco Technical Department*.
** 1000 J/kg = 0,24 kcal/kgK.

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