

ISOLCAP 250

READY TO USE, LIGHTWEIGHT THERMAL INSULATING BASE SCREED

ISOLCAP 250
Ready to use, lightweight thermal insulating base screed

COMPOSITION	Selected binders pre-batched at 15.61 lb/ft^3, perfectly spherical virgin expanded polystyrene beads with high thermal insulating properties (Ø 1/8" - 15/64"), 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	· Bags of 74 qt 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	· Lightweight thermal insulating base screeds (with or without gradient). · Lightening and filling castings. · 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.
CONSUMPTION / YIELD	35.3 ft^3 of lightweight thermal insulating mortar is obtained with 13 - 14 bags (depending on the equipment used and the accuracy of the mix).
SURFACE PREPARATION	· Thoroughly clean the laying surface removing residues and dust. · Prepare the level points. · Moisten the laying surface (if absorbent) taking care not to create puddles. · Highly absorbent surfaces (such as hallow 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.
APPLICATION	**It can be mixed with:** · Drill with whisk. · Cement mixer. · Mixer type "Turbomalt". **It can be mixed and pumped on site with:** · Politerm® Machine (see Edilteco equipment). · Isolcap Machine (see Edilteco equipment). · Truck mixer and concrete pump. · Pump type "Turbosol". Hydrate with clean water in proportion of 6.3 - 8.5 qt per bag. Mix for at least 5 minutes and not more than 10 minutes.
WARNINGS	· Do not apply with temperatures under 41 °F or over 95 °F, or under the direct sunlight. If the application is made under the direct sunlight, necessary precautions must be taken (e.g. net or similar that cover the scaffolding). · It is recommended to lay edge strips of acoustic insulation wider than the floor covering. · **Minimum thickness:** *a) Absorbent surface:* 2" between the highest point of any technological system and the lowest point of the flooring. *b) Non-absorbent surface:* consult "*The Application Manual*" or contact *Edilteco Technical Department.* · For detailed application methods consult "*The Application Manual*", or contact *Edilteco Technical Department.*

Thermal Insulation & Chemicals Division

EDILTECO group

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COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV GL = ISO 9001 =

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TECHNICAL CHARACTERISTICS	Dry density:	15.61 lb/ft^3	-
	Specific weight (dry mortar):	approx. 16.54 lb/ft^3	-
	Thermal conductivity λ_D:	0,067 W/mK	UNI EN 12667
	Compressive strength:	120 psi	UNI 6132
	Flexural strength:	67 psi	UNI EN 13892-2
	Permeability to water vapour μ:	6,9	UNI EN ISO 12572
	Acoustic performance ΔL_w:	14 dB *	UNI EN 12354-2
	Moisture resistance:	rotproof	-
	Residual humidity after 28 days:	< 2% in volume (2" thick, absorbent surface)	-

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 2" of Isolcap 250 + 2" of screed.

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)

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