

ISOLCAP FEIN 300

READY TO USE, LIGHTWEIGHT THERMAL INSULATING BASE SCREED WITH FINE BEADS

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Ready to use, lightweight thermal insulating base screed with fine beads

COMPOSITION	Special water binders pre-batched at 18.73 lb/ft^3. Perfectly spherical virgin expanded polystyrene beads with high thermal insulation properties (∅ 5/64"), 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 frozen, water and direct sunlight). *It is recommended to use suitable protection devices.*
FIELDS OF APPLICATION	· Single-layer lightweight thermal insulating screeds for floor coverings laid with glue (*see notes on page 2*). Not suitable for direct laying of resilient floor coverings. · Lightweight thermal insulating base screeds (with or without gradient formation). · Lightening and filling castings. · Roof thermal insulation (pitched or flat roofs with or without gradient formation). Suitable for direct laying of prefabricated 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. · Lay Piano Zero Profiles (single-layer screeds) or prepare the level points (intermediate levelling base screeds). · 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 to lay the lightweight screed. Wet the surface as you proceed with the application of 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). · Plastering machine *(see notes on Page 2)*. · Truck mixer and concrete pump. · Pump type "Turbosol". Hydrate with clean water in proportion of 10.6 - 11.6 qt per bag. Mix for at least 5 minutes and not more than 10 minutes *(except when using a plastering machine)*.
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 higher than the floor covering.

Thermal Insulation & Chemicals Division

EDILTECO group

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

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WARNINGS	**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.*		
TECHNICAL CHARACTERISTICS	Dry density:	18.73 lb/ft^3	-
	Specific weight (dry mortar):	approx. 19.66 lb/ft^3	-
	Thermal conductivity λ_D:	0,080 W/mK	UNI EN 12667
	Compressive strength:	234 psi	UNI EN 1015-11
	Flexural strength:	138 psi	UNI EN 1015-11
	Permeability to water vapour μ:	7,2	UNI EN ISO 12572
	Acoustic performance ΔL_w:	26 dB *	UNI EN 12354-2
	Moisture resistance:	rotproof	-
	Residual humidity after 28 days:	< 2% (2" thick, absorbent surface)	-
	Drying time for direct laying of floor coverings (screed thickness 2", absorbent surface and ambient conditions +68 °F - R.H. 50%) *according to the laying surface, the environmental and weather conditions.* · **Ceramic tiles, gres, clinker tiles:** after approx. 96 hours. · **Floating parquet:** after approx. 7 days.		
SPECIAL PROCESSING AND APPLICATIONS	**Mixing and pumping with plastering machine 220 V and 380 V:** · Fit the plastering machine with an expansion tank, a screw and a mixer specific for premixed products based on polystyrene beads. · Maintain the loading hopper always full. · It is suggested to use the hopper extension. · Do not use a compressor. · Remove the end nozzle from the material pipe. · Adjust the flow meter to obtain a mortar with a creamy and homogeneous consistency.		
	Single-layer screed for direct laying of floor coverings (specific operation):		
	OPERATION	**LAYING / FLOOR COVERING:** **Laying with glue of:** ceramic, stoneware, clinker and terracotta tiles. **Floating laying of:** parquet	**Laying with glue of:** parquet
	Application of **Piano Zero Profiles:**	yes	yes
	Floating with "blade" float:	yes	yes
	Surface sanding with electrical brush fitted with sandpaper disks:	recommended	recommended
	Thin-bed surface smoothing with mix based on cement and glue:	recommended *when there is heavy foot traffic before laying the floor covering*	no
	Surface smoothing with Autoliv - minimum thickness 13/64" and in any case according to the type of wood and dimension of the wooden strips:	no	mandatory

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 1"+3/4" of Isolcap Fein 300 and Fonotech 5.

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