

ISOLCAP SPEED 525

QUICK DRYING, READY TO USE, THERMAL INSULATING BASE SCREED

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Quick drying, ready to use, thermal insulating base screed

COMPOSITION	Special water binders with fast dehydration and aggregates pre-batched at 32.77 lb/ft^3. Perfectly spherical virgin expanded polystyrene beads with high thermal insulation properties (Ø 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 frost, 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). · Lightening and filling castings. · Roof thermal insulation (pitched or flat roofs with or without gradient). 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), 24 hours before the application of Isolcap SPEED 525, 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:** · Plastering machine *(see notes on Page 2)*. Hydrate with clean water in proportion of 11.6 - 12.7 qt per bag. Mix for at least 3 minutes and not more than 5 minutes *(except when using a plastering machine)*. Use the mixed material within 15 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.

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 the *Edilteco Technical Department.* · For detailed application methods consult "*The Application Manual*" or contact *Edilteco Technical Department.*		
TECHNICAL CHARACTERISTICS	Dry density:	32.77 lb/ft^3	-
	Specific weight (dry mortar):	approx. 33.71 lb/ft^3	-
	Thermal conductivity λ_D:	0,095 W/mK	UNI EN 12667
	Compressive strength:	247 psi	UNI EN 196-1
	Flexural strength:	348 psi	UNI EN 196-1
	Permeability to water vapour μ:	10,2	UNI EN ISO 12572
	Acoustic performance ΔL_w:	17 dB *	UNI EN 12354-2
	Moisture resistance:	rotproof	-
	Residual humidity after 28 days:	< 2% in volume (2" thick, absorbent surface)	-
	Drying time for direct laying of floor coverings (screed thickness 2", absorbent surface) *according to the laying surface, environmental and weather conditions.* · **Ceramic tiles, gres, clinker tiles:** after approx. 24 hours. · **Floating parquet:** after approx. 48 hours.		

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.
· Keep 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 covering (specific operations):

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.

* Calculated value with 2" of Isolcap Speed 525 and Fonotech 5.

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