



ISOLCAP SPEED 525

**QUICK DRYING, READY TO USE,
THERMAL INSULATING BASE SCREED**

ISOLCAP SPEED 525

Quick drying, ready to use, thermal insulating base screed

COMPOSITION	Special water binders with fast dehydration and aggregates pre-batched at 525 kg/m ³ . Perfectly spherical virgin expanded polystyrene beads with high thermal insulation properties (Ø 2 mm), 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	<ul style="list-style-type: none"> · Bags of 70 L 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	<ul style="list-style-type: none"> · Single-layer lightweight thermal insulating screeds for floor coverings laid with glue (<i>see notes on page 2</i>). Not suitable for direct laying of resilient floor coverings. · Lightweight thermal insulating base screeds (with or without falls). · Lightening and filling castings. · Roof thermal insulation (pitched or flat roofs with or without falls). Suitable for direct laying of prefabricated waterproofing membranes (hot bituminous, cold bituminous, cold synthetic) or solvent-free liquid sheaths.
CONSUMPTION / YIELD	1 m 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	<ul style="list-style-type: none"> · 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 hollow 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	<p>It can be mixed with:</p> <ul style="list-style-type: none"> · Drill with whisk. · Cement mixer. · Mixer type "Turbomalt". <p>It can be mixed and pumped on site with:</p> <ul style="list-style-type: none"> · Plastering machine (<i>see notes on Page 2</i>). <p>Hydrate with clean water in proportion of 11 - 12 L per bag. Mix for at least 3 minutes and not more than 5 minutes (<i>except when using a plastering machine</i>). Use the mixed material within 15 minutes.</p>
WARNINGS	<ul style="list-style-type: none"> · Do not apply with temperatures under +5 °C or over +35 °C 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



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WARNINGS	Minimum thickness: a) <i>Absorbent surface:</i> 5 cm between the highest point of any technological system and the lowest point of the flooring. b) <i>Non-absorbent surface:</i> consult "The Application Manual" or contact the Edilteco Technical Department. · For detailed application methods consult "The Application Manual" (available on demand) or contact Edilteco Technical Department. · During the change of each pallet, verify the quantity of water into the mixture.																												
	TECHNICAL CHARACTERISTICS	<table border="1"> <tr> <td>Dry density:</td> <td>525 kg/m³</td> <td>-</td> </tr> <tr> <td>Specific weight (dry mortar):</td> <td>approx. 540 kg/m³</td> <td>-</td> </tr> <tr> <td>Thermal conductivity λ_0:</td> <td>0,095 W/mK</td> <td>UNI EN 12667</td> </tr> <tr> <td>Compressive strength:</td> <td>1,7 N/mm²</td> <td>UNI EN 196-1</td> </tr> <tr> <td>Flexural strength:</td> <td>2,4 N/mm²</td> <td>UNI EN 196-1</td> </tr> <tr> <td>Permeability to water vapour μ:</td> <td>10,2</td> <td>UNI EN ISO 12572</td> </tr> <tr> <td>Acoustic performance ΔL_w:</td> <td>17 dB *</td> <td>UNI EN 12354-2</td> </tr> <tr> <td>Moisture resistance:</td> <td>rotproof</td> <td>-</td> </tr> <tr> <td>Residual humidity after 28 days:</td> <td>< 2% in volume [5 cm thick, absorbent surface]</td> <td>-</td> </tr> </table>	Dry density:	525 kg/m ³	-	Specific weight (dry mortar):	approx. 540 kg/m ³	-	Thermal conductivity λ_0 :	0,095 W/mK	UNI EN 12667	Compressive strength:	1,7 N/mm ²	UNI EN 196-1	Flexural strength:	2,4 N/mm ²	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 [5 cm thick, absorbent surface]	-
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SPECIAL PROCESSING AND APPLICATIONS	Mixing and pumping with plastering machine 220 V and 380 V: <ul style="list-style-type: none"> · 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]:																												
		LAYING / FLOOR COVERING:																											
	OPERATION	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 <i>when there is heavy foot traffic before laying the floor covering</i>	no																											
Surface smoothing with Autoliv - minimum thickness 5 mm 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 5 cm of Isolcap Speed 525 and Fonotech 5.



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