



# ISOLCAP SPEED

**premixed fine-bead lightweight thermal insulating substrate**  
**fine-bead and quick-drying**

+ **packaging and storage:**

- bags of 70 l yield.
- pallets of 40 bags.
- storable for at least 6 months in a cool and dry place away from frost and water.

+ **composition:**

special water binders with fast dehydration and aggregates prebatched for 400 kg/m<sup>3</sup>. - perfectly spherical virgin expanded polystyrene beads with high thermal insulation power (2 mm Ø), mixed with special E.I.A. additive which allows a perfect mix, excellent pumping and homogeneous distribution of the beads in the mix - special additives.

+ **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 substrates (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 mantles (hot bituminous, cold bituminous, cold synthetic) or solvent-free liquid sheaths.

+ **consumption/yield:**

1 m<sup>3</sup> 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 any fragments and vacuuming the dust.
- lay **Piano Zero** Guides (single-layer screeds) or prepare the level points (intermediate levelling substrates).
- moisten the laying surface (if absorbent) taking care not to create puddles.

+ **application:**

- **can be mixed with:**
  - ⊗ drill with whisk,
  - ⊗ cement mixer,
  - ⊗ mixer type "turbomalt".
- **can be mixed and pumped on site with:**
  - ⊗ **Isolcap Machine** (see Edilteco equipment),
  - ⊗ plaster sprayer (see notes on Page 2)
- hydrate with clean water in a proportion of 9 l per bag.
- mix for at least 3 minutes and not more than 5 minutes (except when using a plaster sprayer). Use the mixed material within 15 minutes.

+ **warnings:**

- do not apply with temperatures inferior than +5°C or under the direct light of the sun or with temperatures higher than +35°C. if the application is made under the direct light of the sun, necessary precautions must be taken (e.g. net or similar that covers the scaffolding).
- do not add water or excessive moisture to the screed once it has been laid.
- it is recommended to lay edge strips of acoustic insulation wider than the floor covering.
- in the case of direct laying of floor coverings (**single-layer**): see notes on Page 2.
- for the detailed methods of use and application consult the "**Application Manual**", (available on request) or contact the Edilteco Engineering Department.

+ **technical characteristics:**

- dry density: 400 kg/m<sup>3</sup>
- specific weight (dry mortar): about 415 kg/m<sup>3</sup>
- moisture resistance: rotproof.
- compressive strength (28 days' curing): 1.48 N/mm<sup>2</sup>
- resistance to water vapour diffusion  $\mu$ : 21,04
- thermal conductivity  $\lambda$ : 0.095 W/mK
- residual moisture after 28 days:  $\leq 2\%$ : (5 cm thickness),
- **drying time for direct laying of floor coverings** (depending on the ambient and meteorological conditions):
  - ☞ ceramic tiles- stoneware tiles - clinker tiles: after 24 hours,
  - ☞ floating parquet: after 48 hours.

+ **SPECIAL PROCESSING and APPLICATIONS:**

• **mixing and pumping with plaster sprayer:**

- |  |
|--|
| <input checked="" type="checkbox"/> fit the plaster sprayer with an expansion tank, screw and mixer specifically for premixed products based on polystyrene beads. |
| <input checked="" type="checkbox"/> <b>do not</b> use a compressor.  |
| <input checked="" type="checkbox"/> detach the end nozzle from the material delivery tube.   |
| <input checked="" type="checkbox"/> adjust the flow meter to obtain a mortar with a creamy and homogeneous consistency.  |

• **single-layer screed for direct laying of floor coverings (specific operations):**

operation	Laying with glue of: <i>ceramic, stoneware, clinker and terracotta tiles(*)</i>	Laying with glue of: <i>parquet (*) (**)</i>
	Floating laying of: <i>parquet (*)</i>	
<input checked="" type="checkbox"/> <b>Piano Zero</b> guide laying:	<b>yes</b>	<b>yes</b>
<input checked="" type="checkbox"/> floating with "blade" float:	<b>yes</b>	<b>yes</b>
<input checked="" type="checkbox"/> surface sanding with electrical brush fitted with sandpaper disks:	<b>recommended</b>	<b>recommended</b>
<input checked="" type="checkbox"/> thin-bed surface smoothing with mix based on cement and glue:	<b>recommended when there is heavy foot traffic before laying the floor covering</b>	<b>no</b>
<input checked="" type="checkbox"/> surface smoothing with <b>RS Malta L</b> -minimum thickness <b>5 mm and in any case depending on the type of wood and dimensions of the wooden strips :</b>	<b>no</b>	<b>recommended</b>

(\*): **minimum thickness of screed in Isolcap Speed: 5 cm**, also between the extrados of any technological systems and the intrados of the floor covering.

(\*\*): **always respect the** detailed methods of use and application given in the "**Application Manual**", (available on request) or **contact** the Edilteco Engineering Department.

All the indications provided in this technical data sheet are purely approximate and not binding for legal purposes. 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 the methods and instructions for use generally referable to "workmanlike" execution.

Edilteco S.p.A. reserves the right to change the contents of this technical data sheet on its final judgement.

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