



ISOLTECO

ready-mix plaster

highly thermal insulating

+ **packaging and storage:**

- bags of 60 l yield
- pallets of 40 bags.
- storable for at least 6 months in a cool and dry place away from frost and water.

+ **composition:**

selected water binders prebatched – perfectly spherical virgin expanded polystyrene beads (2 mm Ø), mixed with special E.I.A. additive – special additives.

+ **fields of application:**

- external thermal insulation.
- inside walls thermal insulation.
- ceiling thermal insulation.
- eliminates thermal bridges.
- protection of the walls from rain and moisture.

+ **consumption / yield:**

thickness	yield per bag
cm. 2	ca. mq. 3,0
cm. 3	ca. mq. 2,0
cm. 4	ca. mq. 1,5
cm. 5	ca. mq. 1,2
cm. 6	ca. mq. 1,0

+ **surface preparation:**

For the detailed methods of use and application consult the manual "Isolteco - Application Manual".

- the surface must be clean and absorbent, perfectly sound, free of dust, of partially detached parts and of residual insulating materials.
- before the application of Isolteco, wet the surface in the suitable ways according to the kind of surface.
- in case of **low absorbing** surface, impregnate the entire surface with an adhesion promoter type **Edilstik** and afterwards apply Isolteco on the still wet impregnated surface (fresh on fresh).
- in case of **low absorbing** surface, before applying Isolteco, apply on the entire surface a scratch coat composed by a cement mortar prepared with **Edilstik** or apply the ready-mix scratch coat cement plaster **Drymur Premix Spritz**.
- make the intermediate strips using exclusively Isolteco. Otherwise, also wooden boards or steel strips (bevelled type) of 5 mm of thickness can be used. After the application of Isolteco, the strips made with materials different from Isolteco will have to be carefully removed and the spaces left will have to be filled and levelled with Isolteco. The intermediate strips will have to be positioned not more than 2 m. apart.
- the corners and the openings (like doors, windows and so on) will have to be prepared by applying steel staff angles of the type that has to be fixed by means of cement mortar or of the type that has to be fixed through screw anchors (the last ones, also called "flag staff angles" are recommended for thicknesses of 5 cm. and more). It is also possible to make the corners, during the application of Isolteco, with wooden boards. This method makes that the finished corners are less resistant

to impacts.

For the detailed methods of use and application consult the manual "Isolteco - Application Manual".

+ **application:**

- **application by means of plaster sprayer (recommended):** it is essential to prepare the plaster sprayer with helical mixer with solid screw and a stator specific for lightweight mortars, long-pitched screw and 14 mm diameter cap or nozzle.
- **manual application:** mix with cement mixer or with an horizontal mixer, hydrate with clean water in a proportion of lt. 9 per bag. Mix for at least 5 minutes and not more than 10 minutes.
- apply a first coat of about 1 cm of Isolteco. Wait at least 4 hours (but no more than 24 hours) after that the first coat has been applied, then apply the second coat (of maximum cm. 2,5 – 3,0). If it is necessary to apply further coats, repeat the same procedure. **Total admitted application thicknesses: minimum cm. 2 – maximum cm. 12.**
- after 24 – 96 hours from the application of Isolteco (according to the weather conditions and the applied thicknesses), scrape with a scraping knife, trowel or float.
- not before 10 days from the application of Isolteco, apply the smoothing plaster prepared with **Isolteco Rasatura**. In case higher impacts resistance is required, in the Isolteco Rasatura layer is recommended to use a fibreglass scrim. **The maximum thickness of application of Isolteco Rasatura must be between 4 and 5 mm.**
- the finishing coat can be prepared with one of the following materials:
 - putty (lime putty) mixed with **Isolteco Rasatura** (75-90 kg of lime putty + 25 kg of **Isolteco Rasatura**).
 - coloured mineral mortars, type **Mineral Coloured Isolteco Rasatura**.
 - coloured silicates-based mortars, type **Silicate Coloured Isolteco Rasatura**.

+ **warnings:**

- do not apply 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 apply under the rain, with a temperature inferior than +5°C or with frost risk. In any case **do not add anti-freezing products.**
- apply with relative humidity between 45% and 80%. Do not apply with relative humidity too low.
- for the detailed methods of use and application consult the "**Isolteco - Application Manual**", or contact the Edilteco Engineering Department.

+ **technical characteristics:**

- dry density: 250 kg./m².
- compressive strength: (28 days): 1,16 N/mm².
- flexural strength (28 days): 0,42 N/mm².
- thermal conductivity λ : 0,051 W/(m.K).
- resistance to water vapour diffusion μ : 9,04
- sound insulation on walls: 39 dB.

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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