



# ISOLSAN

**Premixed dehumidifying plaster  
with high thermal insulating power**

- Packaging and storage:**
- Bags of 60 l. yield.
  - Pallet: 40 bags
  - Storable for at least 6 months in a cool and dry place on a pallet, away from frost and water.
- Composition:**
- macro-porous water binding mixed with Drymur, selected and pre-dosed.
  - Virgin expanded polystyrene beads, perfectly spherical with uniform grain size , mixed with special E.I.A. additive.
  - Special additives.
- Fields of application:**
- Dehumidification, renovation and external thermal insulation for walls that suffer of rising damp.
  - Dehumidification, renovation and thermal insulation of perimetrical and dividing walls that suffer of rising damp.
  - Dehumidification, renovation and thermal insulation of ceilings.
  - Elimination of thermal bridges.
  - Protection of walls from rain.
- |                            | <b>thickness</b> | <b>yield per 1 bag</b>     |
|----------------------------|------------------|----------------------------|
| <b>Consumption /yield:</b> | cm. 2            | approx. 3,0 m <sup>2</sup> |
|                            | cm. 3            | approx. 2,0 m <sup>2</sup> |
|                            | cm. 4            | approx. 1,5 m <sup>2</sup> |
|                            | cm. 5            | approx. 1,2 m <sup>2</sup> |
|                            | cm. 6            | approx. 1,0 m <sup>2</sup> |
- Surface preparation:**
- For the detailed methods of use and application consult the manual "Isolsan – Application Manual".**
- The surface must be clean, solid enough, free of detached parts and of residual insulating materials, of dust and absorbent enough. Pay particular care during the exportation of each possible traces of pre-existent gypsum based mortars.
  - If, before the application of Isolsan, it is necessary to fill traces and volumes, etc., these fillings must be done with mortar based of sand, lime and cement and mixed with **Drymur**.
  - Before the application of Isolsan, wet the surface in the suitable ways according to the kind of surface.
  - In case that on the laying surfaces there are salt or salt bloomings, apply previously to Isolsan, a suitable anti-salt treatment (made with high impregnation liquid **Tecosel**, followed by cement base made with **Drymur Premix Spritz**, with **Baumit SanovaVorspritzer** or with mortar based of sand, lime and cement and mixed with **Drymur**).
  - Make the intermediate strips using exclusively Isolsan. Otherwise, also wooden

boards or steel strips (bevelled type), can be used. After the application of Isolsan, the strips made with materials different from Isolsan will have to be carefully removed and the spaces left will have to be filled and levelled with Isolsan. The level strips will have to be positioned not more than 2 ml. apart.

- The corners and the openings (like doors, windows, etc.) will have to be prepared by applying steel staff angels of the type that has to be fixed by means cement mortars or of the type that has to be fixed through screw anchors (the last ones, also called "flags staff angles" are recommended for thickness of 5 cm and more). It is also possible to make the corners, during the application of Isolsan, with wooden board and successive application of staff-angles with net for insulating boards, applied in the following smoothing plaster. this method, also being the most suggested for a dehumidifying cycle, makes that the finished corners are less resistant to impacts.

***For the detailed methods of use and application consult the manual "Isolsan – Application Manuals".***

**Application by means of plaster sprayer:** 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 horizontal mixer, hydrating with clean water in a proportion of about 9-10 l.. Mix for at least 5 minutes and not more than 10 minutes.

#### **Application:**

- Apply a first coat of about 1 cm of Isolsan. Wait at least 4 hours (but not 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 thicknesses: minimum cm. 3 – maximum cm. 12.**
- After 24 – 96 hours from the application of Isolsan (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 Isolsan, apply the smoothing plaster prepared with **Isolteco Rasatura**, or with **Baumit PutzSpachtel** or with mortar based of sand, lime and cement and mixed with **Drymur**. In case higher impacts resistance is required, in the smoothing plaster is recommended to use a fibreglass scrim. **The maximum thickness of application of smoothing plaster must be between 4 – 5 mm.**
- The finishing coat can be prepared with one of the following materials:
  - ◆ Thin-bed dry mortar type **Isolteco Rasatura Monocap** (grain size mm.0,6 or mm.1,0);
  - ◆ Coloured finishing mortars in powder type **Mineral Coloured Isolteco Rasatura**, **Baumit Edelputz** and **Edelputz Extra**;
  - ◆ Silicate-based mortars in paste, type **Silicate Coloured Isolteco Rasatura** and **Baumit SilikatPutz**;
  - ◆ Coloured silossanic-based mortars in paste, type **Baumit SilikonPutz**.

#### **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 "**Isolsan – Application Manual**" or contact the Edilteco Engineering Department.

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.

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 **Technical features:**

- Dry density: 280 kg./m<sup>2</sup>.
- Compressive strength (28 days): 1,28 N/mm<sup>2</sup>.
- Flexural strength (28 days): 0,38 N/mm<sup>2</sup>.
- Thermal conductivity  $\lambda$ : 0,063 W/(m.K).
- Resistance to water vapour diffusion  $\mu$ : 9,00

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