



ISOLSAN[®] 230

PREMIXED DEHUMIDIFYING PLASTER WITH HIGH THERMAL INSULATING PROPERTIES

ISOLSAN[®] 230

Premixed dehumidifying plaster with high thermal insulating properties

PRODUCT	It is composed of macro-porous water binders mixed with Drymur [®] , selected and pre-dosed, virgin expanded polystyrene beads, perfectly spherical with uniform grain size, mixed with special E.I.A. additive, and special additives.
PACKAGING AND STORAGE	<ul style="list-style-type: none"> · Bags of approx. 14 kg · Pallet of 40 bags (on demand 44/48). · 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 frozen, water and direct sunlight). It is recommended to use suitable protection devices.
FIELDS OF APPLICATION	<ul style="list-style-type: none"> · Thermal insulation of internal ceilings and external porches. · Dehumidification, refurbishment and external wall insulation. · Elimination of thermal bridges (pillars, beams, kerbs of slabs, etc.). · Prevention and elimination of surface and interstitial condensation. · Dehumidification, refurbishment and internal wall insulation of perimeter and partition walls. · Protection of walls from rain (façades, beams, pillars, etc.).
CONSUMPTION	2,30 kg/m ² for 1 cm thickness. Each bag ~ 6 m ² for 1 cm of thickness.
SUPPORT PREPARATION	<p>For the detailed methods of use and application consult the <i>Edilteco Technical Department</i>.</p> <ul style="list-style-type: none"> · The surface must be clean, sufficiently solid and absorbent, without detached parts, residual insulating materials, dust. Pay particular attention to eliminate existing gypsum-based mortars parts. · In case of volumes filling, use a normal mortar (made of sand, lime and cement) mixed with Drymur[®] before the application of Isolsan[®] 230. · Before the application of Isolsan[®] 230, moisten the surface with the method suitable to the type of surface. · In case of efflorescences and salts, before applying Isolsan[®] 230, make a suitable anti-salt treatment (made with high impregnation liquid like Tecosel, followed by the scratch coat Drymix Spritz 20.0). · Make the intermediate strips using exclusively Isolsan[®] 230. Otherwise, also wooden boards or steel strips (bevelled type), can be used. After the application of Isolsan[®] 230, remove the strips and fill and levelled the remaining volumes with Isolsan[®] 230. The level strips will have to be positioned not more than 2 m apart. · The corners and the openings (like doors, windows, etc.) must be prepared by applying steel staff angles to be fixed with cement anchors. It is also possible to make the corners, during the application of Isolsan[®] 230, with wooden board and apply the staff angles with mesh for insulating boards, applied in the following smoothing mortar. This method, also being the most suggested for a dehumidifying cycle, makes that the finished corners are less resistant to impacts.



Thermal Insulation & Chemicals Division



Edilteco S.p.A. Via dell'Industria, 710 . 41038 San Felice sul Panaro (MO) Italy
Ph. +39 0535 82161 . Fax +39 0535 82970 . www.edilteco.com | info@edilteco.com

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APPLICATION	<p>For the detailed methods of use and application consult the <i>Edilteco Technical Department</i>.</p> <p>Application with plastering machine: it is essential to prepare the plastering machine with helical mixer with solid screw, and a stator specific for lightweight mortars, long-pitched screw and 14 mm diameter cap or nozzle.</p> <p>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.</p> <ul style="list-style-type: none"> Apply a first coat of about 1 cm of Isolsan® 230. Wait for 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 2,5 - 3,0 cm). If it is necessary to apply further coats, repeat the same procedure. Total admitted thicknesses: minimum 3 cm - maximum 20 cm. After 24 - 96 hours from the application of Isolsan® 230 (according to the weather conditions and the applied thicknesses), scrape with a scraping knife, trowel or float. Wait for at least 10 days from the application of Isolsan® 230, then apply the smoothing plaster prepared with Isolteco® Rasatura Monocap, or with a mortar made with sand, lime and cement and mixed with Dry-mur®. In case a higher impact resistance is required, it is recommended to use a fibreglass mesh in the smoothing plaster. The maximum thickness of the smoothing plaster must be between 4 - 5 mm. <p>Finishing to be painted: after the curing of the base plaster, lay a thin layer of Drymix Fein 14.0 or Isolteco® Rasatura Monocap. After the curing, apply the breathable paint Ecap® STP Silicate Paint, Ecap® SP Silicone Paint, after the treatment with Ecap® F primer. Breathable lime-based paints are compatible.</p> <p>Coloured finishing: it may receive the application of coloured breathable finishing in thickness: Ecap® SC Silicone Colour, Ecap® STC Silicate Colour, to directly apply on the base plaster, after the treatment with Ecap® F primer.</p>																																									
WARNINGS	<ul style="list-style-type: none"> Do not apply under the direct sunlight or with temperatures higher than +35 °C. If the application is made under the direct sunlight, necessary precautions must be taken (e.g. net or similar that covers the scaffolding). Do not apply under the rain, with temperatures below +5 °C or with frost risk. Do not add anti-freezing products. Apply with relative humidity between 45% and 80%. Do not apply with relative humidity too low. When start using product bags from a different pallet, always verify the quality of the mixing water. 																																									
TECHNICAL CHARACTERISTICS	<table border="1"> <tr> <td>Dry density:</td> <td>230 kg/m³</td> <td>-</td> </tr> <tr> <td>Specific weight (dry mortar):</td> <td>245 kg/m³</td> <td>UNI EN 1015-10</td> </tr> <tr> <td>Fire reaction:</td> <td>A2-s1,d0</td> <td>EN 13501-1</td> </tr> <tr> <td>Adherence:</td> <td>0,1 N/mm²</td> <td>UNI EN 1015-12</td> </tr> <tr> <td>Water absorption by capillarity:</td> <td>0,1 kg/m²s^{0,5} W1</td> <td>UNI EN 1015-18 EN 998-1</td> </tr> <tr> <td>Resistance to water vapour diffusion μ:</td> <td>9</td> <td>UNI EN 1015-19</td> </tr> <tr> <td>Thermal conductivity λ₀:</td> <td>0,063 W/mK</td> <td>UNI 12667</td> </tr> <tr> <td>Compressive strength:</td> <td>1,28 N/mm²</td> <td>UNI 6132</td> </tr> <tr> <td>Flexural strength:</td> <td>0,38 N/mm²</td> <td>UNI 6133</td> </tr> <tr> <td>Sound insulation on wall R_w:</td> <td>42 dB *</td> <td>UNI EN ISO 140-3</td> </tr> <tr> <td>Increase of sound insulating power ΔR_w:</td> <td>7 dB *</td> <td>UNI EN ISO 140-16</td> </tr> <tr> <td>Specific heat:</td> <td>1000 J/kgK **</td> <td>UNI 1745</td> </tr> <tr> <td>Durability (frost / thaw):</td> <td>valued</td> <td>UNI EN 998-1</td> </tr> </table>	Dry density:	230 kg/m ³	-	Specific weight (dry mortar):	245 kg/m ³	UNI EN 1015-10	Fire reaction:	A2-s1,d0	EN 13501-1	Adherence:	0,1 N/mm ²	UNI EN 1015-12	Water absorption by capillarity:	0,1 kg/m ² s ^{0,5} W1	UNI EN 1015-18 EN 998-1	Resistance to water vapour diffusion μ:	9	UNI EN 1015-19	Thermal conductivity λ ₀ :	0,063 W/mK	UNI 12667	Compressive strength:	1,28 N/mm ²	UNI 6132	Flexural strength:	0,38 N/mm ²	UNI 6133	Sound insulation on wall R _w :	42 dB *	UNI EN ISO 140-3	Increase of sound insulating power ΔR _w :	7 dB *	UNI EN ISO 140-16	Specific heat:	1000 J/kgK **	UNI 1745	Durability (frost / thaw):	valued	UNI EN 998-1		
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<p>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.</p>																																										

* 6 cm thickness applied on 8 cm thickness holed blocks wall with 1,5 cm layer of cement plaster on the opposite side.
 ** 1000 J/kgK = 0,24 kcal/kgK.



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Edilteco S.p.A. Via dell'Industria, 710 . 41038 San Felice sul Panaro (MO) Italy
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