

GECO PLASTER

PREMIXED DEHUMIDIFYING PLASTER
WITH HIGH THERMAL INSULATION CAPACITY



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Premixed dehumidifying plaster with high thermal insulation capacity

PRODUCT	It is composed of macro-porous water binders mixed with Geco Additive, 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 60 L yield. · Pallets of 44 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 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 Geco Additive before the application of Geco Plaster. · Before the application of Geco Plaster, moisten the surface with the method suitable to the type of surface. · In case of efflorescences and salts, before applying Geco Plaster, make a suitable anti-salt treatment (made with high impregnation liquid like Geco Antisalt). · Make the intermediate strips using exclusively Geco Plaster. Otherwise, also wooden boards or steel strips (bevelled type), can be used. After the application of Geco Plaster, remove the strips and fill and level the remaining volumes with Geco Plaster. 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 Geco Plaster, 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.
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 Geco Plaster. 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.



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APPLICATION	<ul style="list-style-type: none"> · After 24 - 96 hours from the application of Geco Plaster (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 Geco Plaster, then apply the smoothing plaster prepared with Ecap® ADP, or with a mortar made with sand, lime and cement and mixed with Geco Additive. 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>Finish to be painted: after the curing of the base plaster, lay a thin layer of Ecap® ADP. 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 finishes: it may receive the application of coloured breathable finishes 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. · For the detailed methods of use and application consult the <i>Edilteco Technical Department</i>. 		
TECHNICAL CHARACTERISTICS	Dry density:	230 kg/m ³	-
	Specific weight (dry mortar):	245 kg/m ³	UNI EN 1015-10
	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
	Thermal conductivity λ:	0,063 W/mK	UNI 12667
	Compressive strength:	1,28 N/mm ²	UNI 6132
	Flexural strength:	0,38 N/mm ²	UNI 6133
	Resistance to water vapour diffusion μ:	9	UNI EN 1015-19
	Specific heat kJ/kgK:	1,0	UNI EN 1745
	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
	Durability (frost / thaw):	evaluated	UNI EN 998-1
	Fire reaction class:	A2-s1,d0	EN 13501-1

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.

* 6 cm thickness applied on 8 cm thickness holed blocks wall with 1,5 cm layer of cement plaster on the opposite side.



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