



CE

TEKTOTERM® 150

READY TO USE PLASTER
WITH HIGH THERMAL INSULATING PROPERTIES

TEKTOTERM® 150

Ready to use plaster with high thermal insulating properties for external or/and internal thermal insulation, certified with CE according to ELOT EN 998-1

COMPOSITION

Ready to use plaster with high thermal insulating properties ($\lambda_D=0,056W/mK$) composed of selected water binders, high quality virgin beads of expanded polystyrene with constant grain size EPS (N) premixed with special additives in density $150kg/m^3$.

PACKAGING AND STORAGE

- Bag of 60 L yield.
- Pallet of 40 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).

FIELDS OF APPLICATION

- External or/and internal thermal insulation.
- Thermal insulation of double-walled masonry.
- Thermal insulation of ceilings.
- Protection of the walls from the rain.
- Elimination of thermal bridges.
- Excellent compatibility with the bricks.
- Excellent water vapor permeability.
- Pleasant indoor climate.

CONSUMPTION / YIELD

Thickness	Yield/m ²	Thermal resistance "R" m ² K/W
3cm	0,50 bags/m ²	0,54
4cm	0,67 bags/m ²	0,72
5cm	0,84 bags/m ²	0,89
6cm	1,00 bags/m ²	1,07
7cm	1,17 bags/m ²	1,25
8cm	1,34 bags/m ²	1,43
9cm	1,50 bags/m ²	1,60
10cm	1,67 bags/m ²	1,78
11cm	1,84 bags/m ²	1,96
12cm	2,00 bags/m ²	2,14
13cm	2,16 bags/m ²	2,32
14cm	2,33 bags/m ²	2,50
15cm	2,50 bags/m ²	2,68



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<p>SURFACE PREPARATION</p>	<p><i>For detailed methods of use and application, consult the "Tektoterm - application manual"</i></p> <ul style="list-style-type: none"> • The surface must be clean, sufficiently solid and absorbent, free of detached parts, dust and residual insulating materials. • Before the application of Tektoterm® 150, moisten the surface following the method suitable to the type of surface • In case of low absorbing surface, apply on the entire surface an adhesion promoter latex Edilstik type and then apply Tektoterm® 150 on the still wet surface ("fresh on fresh"). • In case of very low absorbing surface or of high absorbing surface, apply on the entire surface a scratch coat composed of cement grout and sand with Edilstik, or use a ready to use scratch coat (type Drymix Spritz). • Make the intermediate strips using exclusively Tektoterm® 150. Otherwise, wooden or metal strips can be used too. After the application of Tekoterm® 150, the strips will have to be carefully removed and the spaces left will have to be filled and levelled with Tektoterm® 150. The intermediate strips have to be positioned not more than 2 m apart. • The corners and the openings (doors, windows, etc.) have to be prepared by applying steel staff angles to be fixed with cement or thermal mortar. It is also possible to make corners, during the application of Tektoterm® 150, with wooden boards. This method makes the finished corners less resistant to impacts.
<p>APPLICATION</p>	<p><i>For detailed methods of use and application, consult the "Tektoterm - application manual".</i></p> <ul style="list-style-type: none"> • Application with plastering machine (recommended). it is essential to prepare the plastering machine with a turbo or mini-turbo, helical mixer with solid screw, stator specific for lightweight mortars, long pitched screws and 14 mm diameter cap or nozzle. • Manual application. Mix with a cement mixer or with horizontal mixer, hydrate the content of one bag with approximately 6-8 L of clean water. Mix for at least 5 minutes and not more than 10 minutes. Mix the bag at once. Do not separate the bags. • Apply a first coat of about 1 cm of Tektoterm® 150. Wait for at least 4 hours (but not more than 24) so that the first coat can hold, so apply the second coat (of maximum 2,5 - 5,0 cm). If a further coat is necessary, repeat the same procedure. Total admitted application thickness: minimum 2cm - maximum 20cm • After 24-96 hours from the application of Tektoterm® 150 (according to weather conditions and the applied thickness), scrape the surface with a scraping knife, trowel, or float. • Not earlier/before than 6-7 days from the application of Tektoterm® 150, and only after its the complete drying, apply smoothing plaster. • To increase the resistance to impacts, it is recommended the addition of a fiberglass mesh (160 gr/m²) in the smoothing mortar. The thickness of the smoothing mortar must mandatory be of 4-5 mm.
<p>WARNINGS</p>	<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 direct sunlight, necessary precautions must be taken (e.g., net, or similar that covers the scaffolding • Do not apply under the rain, with temperature below +5 °C or with frost risk. In any case, do not add ant freezing products. • Apply with relative humidity between 45% and 80%. Do not apply with a too low relative humidity. • Use only with clean water in the appropriate amount and time. Mix the whole bag at once. Do not separate the bag.
<p>DETAILS APPLICATIONS</p>	<p>For detailed methods of use and application, consult the "Tektoterm - application manual" or contacts the Tekto hellas sa.</p>



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CERTIFICATION	Thermal insulating plaster Tektoterm it's certified with CE according to Greek and European norm ELOT EN 998-1. The production of the company is certified with ISO 9001 from DQS. It is recommended that the application of Tektoterm be done by certified technicians and be in accordance with the instructions of Tekto hellas sa		
TECHNICAL CHARACTERISTICS	Dry density	150Kg/m ³	-
	Specific weight	160Kg/m ³	ELOT EN 1015-10
	Thermal conductivity λ_D	0,056W/m ² K	ELOT EN 12667
	Compressive strength N/mm ²	1,15MPa	ELOT EN 1015-11
	Compressive strength kPa	1.150kPa	ELOT EN 1015-11
	Flexural strength MPa	0,39MPa	ELOT EN 1015-11
	Adherence FPB	0,13N/mm ²	ELOT EN 1015-12
	Fire reaction	A2-s1, d0	ELOT EN 13501-1
	Coefficient of water vapour permeability, μ	9	ELOT EN 1015-19
	Aggregate granulometry – Amount of dust	PS5(N) - D0	ELOT EN 933-1
	Specific heat	1000J/kgK	-
	Water absorption by capillarity	0,1 kg/m ² s ^{0,5} W _{c1}	ELOT EN 1015-18 ELOT EN 998-1
	Αντοχή στην υγρασία	Άφθαρτο	-
	Residual moisture after 28 days	<2% (5 cm thickness on an absorbent surface)	

ECOLOGY – INVIROMENTAL FOOTPRINT

- ✓ Very high thermal insulating abilities ➔ Less material thickness to achieve the thermal requirements of a building structure
- ✓ Positive environmental footprint ➔ The energy savings the product offers exceed the energy required for its production.
- ✓ Reduced water needs ➔ Its special composition has significantly reduced mixing water needs. It does not absorb, nor retains water like other mortars.
- ✓ Extremely lightweight for transport ➔ Reduced environmental footprint of transport.
- ✓ Extremely lightweight ➔ Significantly contributes to the reduction of “dead” loads of a construction, increasing in that way the anticipated lifetime of old structures/renovations.

All the indications provided in this technical data sheet are purely approximate and are not binding for legal purposes. The data listed herein have been gathered from laboratory tests meaning that in practical applications on building sites the final characteristics of the product may be subject to substantial variations depending on the meteorological conditions and the installation. The user must always check the suitability of the product for its specific use, undertaking all liability implicit in and deriving from the use of the product, as well as comply with all methods and instructions for use generally referred to as “workmanlike” execution. TEKTO HELLAS S.A. reserves the right to change the contents of this technical data sheet on its final judgement without any notification. The distribution of this data sheet supersedes and cancels the validity of any other data sheet published previously.



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