Page 1/4

HYGROSMART[®] – ADHESIVE TH

High Performance Cement Based Adhesive for Thermal Insulation Boards with No Vertical Slip

DESCRIPTION

HYGROSMART®-ADHESIVE TH is high quality cement based adhesive suitable for adhesion of thermal insulation boards. The material is easily applied and displays excellent technical characteristics, adhesive properties and no vertical slip.

HYGROSMART[®]-ADHESIVE TH is used as an adhesive for the HYGROSMART[®] COVER OVER System.

COMPLIANCE-CERTIFICATION

The product is **CE** certified as factory made rendering/plastering mortar based on inorganic binders for external and internal use on walls, ceilings, columns and partitions according to

EN 998-1:2016 and as adhesive for installation of thermal insulation boards from extruded polystyrene (XPS), expanded polystyrene (EPS), mineral wood/rock wool (MW/RW) and polyurethane (PU) on building external facades and on concrete or plaster/render substrates according to **EN 13499:2003** and **EAD 040083-00-0404**.

RECOMMENDED FOR

Most suitable adhesive for installation of thermal insulation boards from extruded polystyrene (XPS), expanded polystyrene (EPS), mineral wool/rock wool (MW/RW) and polyurethane (PU) on building external facades and on concrete or plaster/render substrates.

It is also used for over coating of thermal

insulation boards by using special glassfiber mesh.

FEATURES AND BENEFITS

- High initial and final adhesion
- Resistance to moisture
- No vertical slip

APPLICATION PROCEDURE

Substrate Preparation:

Remove oil, grease and wax contaminants, cement laitance, loose particles. Fill surface irregularities with the necessary product.

Homogenize the mixture of tile adhesive with water for at least 3 min until no lumps are visible. If the substrate is very dry, it is recommended that it is dampened before installation. Apply the adhesive and fix the thermal insulation boards applying moderate pressure.

Mixing-Application:

HYGROSMART®-ADHESIVE TH (25Kg) is added gradually under mechanical mixing to 6-7 Kg water.

The adhesive is applied on thermal insulation boards and "combed" with notched trowel for uniform spreading all over the surface.

The temperature during application should be between $+5^{\circ}C$ and $+35^{\circ}C$.



Page 2/4

HYGROSMART[®] – ADHESIVE TH

CONSUMPTION

3-5 Kg/m².

CLEANING

Brushes and tools can be cleaned with water. Dried product cannot be cleaned with water and can be removed only by mechanical means.

PACKAGING

25Kg paper bags Color: white

STORAGE

The product can be kept for minimum 12 months in the original unopened packaging. Should be stored in dry conditions and at temperatures of 5-25°C. Once opened, use as soon as possible.

TECHNICAL SPECIFICATIONS

CE 2085			
ALCHIMICA S.A.			
Lampsakou 7, Athens - GREECE			
18			
4P-0185/08102018			
EN 998-1:2016			
	System 4-Testing laboratory Directorate at Eurotest Control EAD (2085)		
	HYGROSMART ADHESIVE TH		
Factory made rendering/plastering mortar based on inorganic binders for external and internal use on walls, ceilings, columns and partitions			
PROPERTY			
Dry bulk density of hardened mortar	1480 kg/m ³		
Compressive strength	10.3 N/mm ² for category CS IV		
Adhesive strength	1.1 N/mm ² fracture pattern type b		
Capillary water absorption coefficient	0.11 for category Wc 2		
Water vapour permeability	1,94.10 ⁻¹¹ kg/m.s.Pa		

Certified quality, environmental and occupational health & safety management systems: ISO 9001/14001 & ISO 45001.

SAFETY

HYGROSMART®-ADHESIVE TH contains cement and is therefore irritating. Please use protective equipment and clothing during application.



Page 3/4

HYGROSMART[®] – ADHESIVE TH

Reaction to fire	Euroclass A1
Dangerous substances	In accordance with 5.3.4

Provide adhesive and conditions: EPS/XPS substrate at standard conditions: EPS/XPS substrate after immersion in water for 2 days and 7 days at standard conditions: EPS/XPS substrate after immersion in water for 2 days and 7 days at standard conditions: EPS/XPS substrate after immersion in water for 2 days and 7 days at standard conditions: EPS/XPS substrate after immersion in water for 2 days and 7 days at standard conditions: EPS 0.09 Astrength between adhesive and conditions: EPS/XPS substrate after immersion in water for 2 days and 7 days at standard conditions: Bond strength between adhesive and conditions: EPS/XPS substrate after immersion in water for 2 days and 7 days at standard conditions: EPS/XPS substrate after immersion in water for 2 days and 7 days at standard conditions: EPS/XPS substrate after immersion in water for 2 days and 7 days at standard conditions: EPS/XPS substrate after immersion in water for 2 days and 7 days at standard conditions: EPS/XPS substrate after immersion in water for 2 days and 7 days at standard conditions: EPS/XPS substrate after immersion in water for 2 days and 7 days at standard conditions: EPS/XPS substrate after immersion in water for 2 days and 7 days at standard conditions: EPS 0.05 APS 0.09 APS 0.09 </th <th></th> <th></th>				
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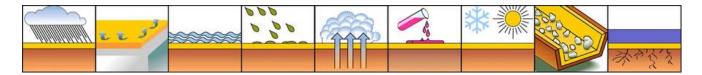


Page 4/4

HYGROSMART[®] – ADHESIVE TH

PROPERTY	UNIT	RESULT
Water requirement	%	28% by weight
Density of dry mix	Kg/l	1.50
Density of wet mix	Kg/l	1.65
Pot life in the pail	h	≥6
Open time	min	30
Adhesion on EPS	N/mm ²	0,10
Slip	mm	0
Compressive strength	N/mm ²	≥10
Flexural strength	N/mm ²	≥3,5

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Certified quality, environmental and occupational health & safety management systems: ISO 9001/14001 & ISO 45001.