



# ALFATHERM

## Base Coat - S

**ALFATHERM BASE COAT - S** is a Fiber reinforced cement-based adhesive-coating based on high quality cement, specially granulated sand, fortified with resins. Suitable for the adhesion and levelling of thermal insulation boards (EPS/XPS/mineral wool etc.) on bricks, plastered surfaces, on vertical or horizontal surfaces, for indoor and outdoor.

### Applications:

For the adhesion of extruded (XPS), expanded polystyrene (EPS) and stone wool to different substrates such as concrete, bricks, plaster, stone, aerated concrete, etc. As reinforcing top coat (reinforced fiberglass mesh) on insulating boards. As plaster on cement or gypsum boards, surfaces with sprits, or texture coating (graffiato).

### DIRECTIONS FOR USE

**Surface preparation:** The substrate must be sound, strong and free of dust, loose parts, grease, oil, etc. Absorbent surfaces should be soaked with water or primed with the micro molar stabilizer (primer).

**Mixing:** 25kg **ALFATHERM BASE COAT - S** is gradually added to 6 - 7L water. Mix with low rpm electric mixing drill until a lump free, homogeneous mass is obtained. Allow the mixture to mature for 5 minutes and mix again. During use mix periodically, without adding extra water.

### Application:

**On flat surfaces:** Spread the adhesive onto the insulation board. 'Comb' the adhesive evenly throughout the surface and place it on the wall. The size of the trowel depends on the level of the substrate - 10x10 mm is usually used.

**On non-flat surfaces:** Apply the adhesive around the edges (~5cm wide) of the insulating board with a margin trowel and on spots (dots ~15cm diameter) to the rest of the surface. The amount of the adhesive to be applied must be chosen in such a way as to achieve more than 40% contact area. Place the board on the wall and apply pressure on its surface, to ensure safe and uniform contact between the adhesive and the substrate. The installation requires levelling, in order to ensure the evenness of the adhered board surface. At least 24 hours later, depending on the building size and height, apply the appropriate number of plastic fasteners (anchors).

**As reinforcing top coat for insulating boards:** Using a notched trowel (10x10mm), apply across the entire surface, a thin (3-5mm) layer of the adhesive, and encapsulate in it the reinforcing fiberglass mesh (ALFANET 160 g/m<sup>2</sup> based on ETAG). Using the trowel, and once the mesh installation is completed smooth the surface. When smoothing the fiberglass mesh should be covered with at least 1 mm of adhesive. After smoothing, if the mesh remains visible, an additional layer of **ALFATHERM BASE COAT - S** is applied, when the previous one has thoroughly dried (total recommended thickness - material + fiberglass mesh about 3-5mm). As reinforcing top coat can be also used **ALFATHERM TOP COAT FLEX**. On complete cure, prime the surface with **ALFALIQ COLOR & PLASTER PRIMER** and coat with **ALFALIQ UV THERMAL ACRYLIC** or **SILICONE**, available in smooth or textured finish. Alternatively, use **Globus Colors ELASTOMERIC** paint (in such case one more coat of **ALFATHERM TOP COAT FLEX** is required prior painting).

### Recommendations:

Do not use **ALFATHERM BASE COAT - S** on disintegrated /damaged plasters. Possible irregularities of the substrates must be eliminated before the application of **ALFATHERM BASE COAT - S**. Attention should be paid to moisture issues. The surface must not show visible signs of moisture penetration. Seal the substrate with **WATER SEAL**-insulating material at a height of 30-40cm above the ground level prior the application of the adhesive.

**Weather Conditions:** Use at temperatures between +5°C and +35°C. Too high or too low temperatures, it might cause a negative reaction to the product.

**Storage:** All cement base products must be stored in dry areas, in original unopened packaging on wooden pallets. Even under these conditions, after a period of time the material is influenced by the atmosphere humidity. Do not use the product if it has hardened. The storage time should not exceed 12 months.

## Technical characteristics (measurement conditions 23°C & 50% R.H.)

Product identity	
Form	Cementitious mortar
Color	White / Grey
Maximum grain size	0.8 mm
Bulk density of dry mortar	1.4 ± 0.1 kg/lt.
Dry solid content (%)	100%
Storage	12 months if stored in original, unopened packaging, in dry and shaded places.
Toxicity / Inflammability	NO
Application data	
Water demand	25kg Powder with 6 - 7L Water
Consistency of mix	Paste
pH of fresh mortar	>10
Pot life	3 hours / stirring every 1hr
Application temperature	+5 °C - +35 °C
Open time	20-25 min
Time for the final coat	7 days - summer and 14 days - winter
Consumption: As adhesive	5 - 6 kg/m <sup>2</sup> , depending on notch size and substrate
Consumption: As mesh coating layer	1.5 - 2 kg/m <sup>2</sup> /mm
Final Performances	
Adhesion Strength after 28 days, EN 1015-12	≥1.5 N/mm <sup>2</sup>
Compressive Strength after 28 days, EN 1015-11	5.3 ± 1.0 N/mm <sup>2</sup>
Flexural Strength after 28 days, EN 1015-11	11.5 ± 1.0 N/mm <sup>2</sup>
Water Absorption EN 1015-18	Class w2 (c<0.2 kg/m <sup>2</sup> .min <sup>0.5</sup> )
Thermal Conductivity (λ10,dry)	0.7 W/m K– standard table value

**Note:**

The directives that are given above for our products are based on extensive research and experiments that were done by accredited European laboratories. We guarantee the constant and high quality of our products. Also, the information that is provided in this document, constitute the opinion of Producer Company, that however can be effected from others. The users of the product have the responsibility to follow correct processes of hygiene and safety. We do not have any responsibility for any damage or loss by factors that are not controlled by our company. For any other information contact with AVRAAM PITTAKIS and SONS LTD.

# DECLARATION OF PERFORMANCE

in accordance with regulation (EU) No.305/2011, appendix III  
N°: ΑΠ133 - CPR - 01/07/2013

1. Unique identification code of the product-type: 133 - ALFATHERM BASE COAT - S
2. Type, batch or serial number or any other element allowing identification of the construction product: The Batch code is printed on package
3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer: General Purpose Rendering / Plastering Mortar (GP)
4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required under article 11 (5):

AVRAAM PITTAKIS & SONS LTD  
P.O Box: 33006, 5310 Paralimni, Cyprus,

[www.paralimnitiko.com](http://www.paralimnitiko.com)  
[info@paralimnitiko.com](mailto:info@paralimnitiko.com)

5. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V: **System 4**
6. a. Harmonised Standard: CYS EN 998-1:2016
7. Declared Performance/s:

## General Purpose Rendering / Plastering Mortar (GP)

Essential characteristics	Performance	Harmonised Technical Specification
Reaction to fire	Class A1	EN 12004:2017
Release of dangerous substances	See NPD	
Adhesion	CSIV	
Water Absorption	W2	
Water Vapour permeability coefficient	$\mu \leq 15$	
Dry Bulk Density	$1650 \pm 10 \text{ kg/m}^3$	
Thermal Conductivity, $\lambda_{10}$ , dry	$0.65 \pm 0.05 \text{ W/m K (P=50\%)}$	
Durability (against freeze / thaw)	Evaluation based on provisions valid in the intended place of use of the mortar.	

8. The performance of the product identified above is in conformity with the declared performance/s (point 7). This declaration of performance is issued in accordance with regulation (EU) NO.305/2011 under the sole responsibility of the manufacturer identified above.

 , Paralimni, 01/09/2018

Signed for and on behalf of manufacturer by:

Koutsofta Katerina, Chemical Engineer



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ΑΠ Τ057 - CPR - 01/07/2013  
ALFATHERM BASE COAT - S - T057

**CYS EN 998-1: 2016**

**General purpose rendering / Plastering mortar (GP)**

**Reaction to fire:** Class A1

**Adhesion:**  $\geq 0.65 \text{ N/mm}^2$  - FP:A

**Compressive Strength :** CSIII

**Water absorption:** W2

**Water vapour diffusion coeff.:**  $\mu \leq 15$

**Dry Bulk Density:**  $1650 \pm 10 \text{ kg/m}^3$

**Thermal conductivity ( $\lambda_{10}$ , dry):**  $0.65 \pm 0.05 \text{ W/mK}$   
(Mean Value, P=50%)

**Release of dangerous substances:** see NPD

**Durability (against freeze / thaw cycles):** evaluation based on provisions valid in the intended place of use of the mortar