ALFAKOL 18*

ALFAKOL 18* C2TE – S2 - is an Improved, Cementitious adhesive (C2), with reduced Slip (T), extended open time (E), and Highly Deformable (S2), for indoor and outdoor use on floors and walls. Suitable for bonding low and non-absorbent tiles like porcelain tiles, granite, glass mosaic, decorative bricks regardless of their dimensions and natural & artificial stones on plastered surfaces, concrete, gypsum and cement boards. Its unique endurance to humidity, to expansions and contractions and intense temperature variations makes it ideal for floor radiant heating systems, bonding ceramics on existing ceramics*, to pools, balconies and terraces.

***As long as it is primed with ALFALIQ BETON RED PRIMER.**

DIRECTIONS FOR USE

Surface preparation: The application surface has to be sound, clean, free of loose materials, dust, paint, grease and oils. For better adhesion soak the surface before the application.

Mixing: ALFAKOL 18* is gradually added into water (6-7L) under continuous stirring, until a uniform, lump free mixture is obtained and the desired consistency is achieved. Use a low speed mechanical stirrer for the preparation of the adhesive. Allow the mixture to mature for 5 minutes and mix again. During use mix periodically, without adding extra water.

Application: Apply the adhesive using a notched trowel, and spread on the substrate. Then, coat as much surface as is required to work for the next 10-20 minutes (depending on weather conditions), thus avoiding skin formation. Finally, install the tiles in the selected position by tapping softly with a rubber mallet.

Consumption: 5-6 kg/m² depending on the size of the notched trowel, the smoothness of the substrate and the dimensions of the tiles.

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

Storage: 12 months in original unopened factory sealed packages, in dry and shaded place.

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

Product identity	
Form	Cementitious mortar
Color	White / Grey
Bulk density of dry mortar	1.35±0.1kg/lt.
Dry solid content (%)	100%
Storage	12 months if stored in original, unopened packaging, in dry and shaded places.
Toxixity/ Inflammability	NO
Application data	
Water demand	6-7L / 25 kg bag
pH of fresh mortar	>10
Pot life	4 hours / mix every 1 hour
Application temperature	+5 °C - +35 °C
Grouting	4-6 hours on wall 24 hours on floor
Foot Traffic	24 hours
Consumption	5-6kg/m² Depending on use
Final Performances	
Classification according EN12004	C2TE-S2
Temperature resistance	-30°C - +90°C
Open time (30min.)	1.4 N/mm²
Initial adhesion strength (28 days)	3.5 N/mm²
Adhesion Strength after heat ageing (28 days)	2.9 N/mm²
Adhesion strength after water immersion (28 days)	2.3 N/mm²
Adhesion strength after freeze-thaw cycles (28 days)	2.7 N/mm²
Slip	0.3 mm
Transverse deformation	9.4 mm

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
Nº: CPR118-CPR - 01/07/2013

1. Unique identification code of the product-type: ALFAKOL 18* - 118

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: Improved, deformable, cementitious adhesive with reduced slip and extended open time C2TE-S2, Internal/External wall and floor tiling.

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.pittakis.com
info@pittakis.com

5. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V : **System 3**

6. a. Harmonised Standard: CYS EN 12004:2017

Notified body: A notified testing laboratory, the APPLUS, LGAI TECHNOLOGICAL CENTER, S.A, NB 0370, has performed the determination of the product-type on the basis of Initial Type Testing (ITT) under system 3 and issued the test report Nº 08/32301784

7. Declared Performance/s:

C2TE-S2		
Essential characteristics	**Performance**	**Harmonised Technical Specification**
Reaction to fire	Class A1	EN 12004:2017
Release of dangerous substances	NPD	
Open time (30 min)	≥0.5 N/mm²	
Initial Adhesion Strength	≥1 N/mm²	
Adhesion Strength after Heat Ageing	≥1 N/mm²	
Adhesion Strength after water immersion	≥1 N/mm²	
Adhesion Strength after freeze/ thaw cycles	≥1 N/mm²	
Slip	≤0.5 mm	
Transverse deformation	≥5 mm	

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

CE

AVRAAM PITTAKIS & SONS LTD
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ALFAKOL 18* - 118

CYS EN 12004: 2017

Improved Cementitious Flexible Adhesive with Extended Open Time and Reduce Slip C2TE-S2

Internal/External wall and floor tiling

Reaction to fire: Class A1

Release of dangerous substances: NPD

Open Time (30 min): ≥ 0.5 N/mm²

Initial Tensile Adhesion Strenght ≥ 1 N/mm²

Tensile Adhesion Strenght after Heat Ageing: ≥ 1 N/mm²

Tensile Adhesion Strenght after Water Immersion: ≥ 1 N/mm²

Tensile Adhesion Strenght after Freeze/Thaw Cycles: ≥ 1 N/mm²

Transverse Deformation: ≥5mm

Slip: ≤ 0.5mm