TOPCRET

BAXAB

Market certificates CE

- Declaration of comformity
- Declaration of performances

ENGILAND PROYECTOS Y SERVICIOS SL
Plaça Doctor Letamendi, 24 – 08007 Barcelona
Tel: 93.451.88.34
info@engiland.com
www.engiland.com

TOPCRET

Declaration of comformity

The manucfuaturer

Topcret tecnología en revestimientos, SL
Gran Via de les Corts Catalanes, 828
08013 Barcelona
Spain

Declares in accoradance with section 9 of the construction products the following

The self-leveling paste system of cement floors

BAXAB

Described in the data sheet and manufactured in the factory located in C/ Edison, 21,Barberá del Vallès (BARCELONA), SPAIN

Conforms with the EN 13813 under the consideration of the information accompanying the system with respect to the application of component products and meets the market requirements in CE according to annex ZA of the EN 13813.

Procedures for comformity assessment have been carried out according to table ZA.2

The product is subject to the control of production process according to EN 13813.

And for the record signed 21st April 2015,

Mr. Ernesto Aiello
Administrator
Topcret tecnología en revestiminetos

Attached:

Data sheet (System applied according to the data sheet)

TOPCRET

CE Topcret tecnología en revestimientos, SL Gran Via de les Corts Catalanes, 828 08013 Barcelona España 15	
EN 13813 The self-leveling paste system of cement floors CT-C16- F7-AR2	
Minimum thickness of layer	3,0 mm
Compressive resistance	C16
flexural resistance	F7
Wear resistance	AR0,5
Surface hardness	SH100
Modulus of elasticity	E1
Impact resistance	IR14.7
Traction resistance	B2.0
Water permeability	Class III
Fire reaction	Euroclase F
Hazard Substances	Meets 5.3

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Declaration of performances
Nº TC1
According regulation UE 305/2011

1. Name and identification code:
   BAXAB
   Batch: See the product packaging

2. Name and manufactures address:
   Topcret tecnología en revestimientos, SL
   Gran Via de les Corts Catalanes, 828
   08013 Barcelona
   España

3. Intended use:
   The self-leveling paste system of cement floors

4. System of assessment and verification of constancy of performance:
   CE4

5. Performance Features

Essential characteristics	**Features**	**Harmonized technical specifications**
Compressive resistance	C16	EN 13813
Flexural resistance	F7	EN 13813
Wear resistance	AR0,5	EN 13813
Surface hardness	SH100	EN 13813
Modulus os elasticity	E1	EN 13813
Impact resistance	IR14,7	EN 13813
Traction resistance	B2,0	EN 13813
Water permeability	Class III	EN 13813
Fire reaction	Euroclase F	EN 13813
Hazard substances	Meets wtih 5.3	EN 13813

And for the record signed 21st April 2015,

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BAXAB

Assay characteristics

ENGILAND PROYECTOS Y SERVICIOS SL
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www.engiland.com

LGAI Technological Center S.A.
Campus UAB
Carretera acceso Facultad de Medicina s/n
E-08193 Bellaterra (Barcelona)
Spain
T +34 93 567 20 00
www.appluslaboratories.com

Bellaterra : 17/09/15

File number : **15/10938-1734**
Petitioner reference : ***TOPCRET TECNOLOGÍA EN REVESTIMENTOS, S.L.***
NIF: B-63700074
Gran Via de les Corts Catalanes, 828
08013 Barcelona

TEST REPORT

MATERIAL RECEIVED:

On 9 September 2015, a sample of 2 test tubes, 4x4x16cm, was received at Applus Laboratories, with the following reference according to the Petitioner:

BAXAB

TESTS REQUESTED:

SELF-LEVELLING MATERIAL FOR FLOORS, UNE-EN 13813:2014
1- Resistance to compression and bending, UNE-EN 13892-2:2003

DATE THE TESTS WERE CONDUCTED: **Between** 09/09/2015 and 16/09/2015.

RESULTS: See enclosed page

Manager of Construction Materials
LGAI Technological Center S.A.

Technical Manager
LGAI Technological Center S.A.

LGAI Technological Center S.A. Listed in the Business Register of Barcelona, Volume 35,803, Page 1, Sheet B-266.627, 1st entry. CIF A-63207492

Record number 15/10938-1734	Page: 2
TOPCRET TECNOLOGÍA EN REVESTIMIENTOS, S.L.	**BAXAB**

RESULTS:

1- Resistance to compression and bending, UNE-EN 13892-2:2003

		RESISTANCE TO BENDING		RESISTANCE TO COMPRESSION	
Test tube	**Age of breakage (days)**	**Tension of breakage (N/mm2)**	**Average value (N/mm 2)**	**Tension of breakage (N/mm2)**	**Average value (N/mm2)**
1	28	7,4	**7,6**	15,00	**16,1**
				16,4	
2	28	7,7		16,4	
				16,6	

TYPES OF RESISTANCE TO COMPRESSION FOR SELF-LEVELLING MATERIAL UNE-EN 13813:2014													
Type	C5	C7	C12	C16	C20	C25	C30	C35	C40	C50	C60	C70	C80
Resistance to compression (N/mm 2)	5	7	12	16	20	25	30	35	40	50	60	70	80

TYPES OF RESISTANCE TO BENDING FOR SELF-LEVELLING MATERIAL UNE-EN 13813:2014													
Type	F1	F2	F3	F4	F5	F6	F7	F10	F15	F20	F30	F40	F50
Resistance to bending (N/mm 2)	1	2	3	4	5	6	7	10	15	20	30	40	50

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Campus UAB
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Spain
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Bellaterra	:	06 July 2015
File number	:	***14/8341-568M1***
Petitioner reference:	:	***TOPCRET TECNOLOGÍA EN REVESTIMENTOS, S.L.***
		NIF: B-63700074
		Gran Via de les Corts Catalanes, 828
		08013 Barcelona

TEST REPORT

MATERIAL RECEIVED:

On 27 March 2014, Applus Laboratories received a sample of self-levelling floor (microcement) applied to different supports, with the following instructions from the petitioner:

BAXAB

TESTS REQUESTED:

SELF-LEVELLING FLOOR SCREED, UNE-EN 13813:2003

1. Determination of bond strength, UNE-EN 13892-8:2003
2. Determination of surface hardness, UNE-EN 13892-6:2003
3. Determination of liquid water permeability, UNE-EN 1062-3:2008
4. Determination of flexural properties, UNE-EN ISO 178:2003
5. Determination of resistance to impact, UNE-EN ISO 6272:2012
6. Determination of BCA wear resistance, UNE-EN 13892-4:2003
7. Determination of chemical resistance, UNE-EN 13529:2003

TEST DATES: From 27/3/2014 to 2/5/2014.

RESULTS: See attached pages.

Manager of Construction Materials	Technical Manager
LGAI Technological Center S.A.	LGAI Technological Center S.A.

The results specified in this document relate only to the material received by Applus Laboratories and tested according to the indications given.

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File no. ***14/8341-568M1***	Page 2
TOPCRET TECNOLOGÍA EN REVESTIMENTOS, S.L.	***BAXAB***

RESULTS:

1. Determination of bond strength, UNE-EN 13892-8:2003

Test tube no.	***Tensile strength (N/mm²)***	***Breakage***
1	3.11	X
2	3.33	X
3	3.41	X
4	3.18	X
5	3.29	X
6	3.37	X
Average	***3.3***	

Breakage:

X: Breakage due to cohesion of support. Y: Breakage due to cohesion of mortar being tested.

X/Y: Breakage between support and mortar being tested.

TENSILE STRENGTH CLASSES FOR SELF-LEVELLING MORTARS					
Class	***B 0.2***	***B 0.5***	***B 1.0***	***B 1.5***	***B 2.0***
Tensile Strength N/mm²	0.2	0.5	1.0	1.5	2.0

2. Determination of surface hardness, UNE-EN 13892-6:2003

Test tube no.	***Depth of indentation (t) (mm)***	***SH = SURFACE HARDNESS (N/mm²)***
1	0.14	114
2	0.12	133
3	0.14	114
	Average	***120***

SURFACE HARDNESS FOR SELF-LEVELLING MORTARS							
Class	***SH30***	***SH40***	***SH50***	***SH70***	***SH100***	***SH150***	***SH200***
Surface Hardness N/mm²	30	40	50	70	100	150	200

3. Determination of liquid water permeability, UNE-EN 13892-3:2003

Test tube no.	W ($Kg/m^2 h^{0.5}$)
1	0.01
2	0.01
3	0.01
Average	**0.01**

Classification according to liquid water transmission rate		
Class		Liquid water transmission rate (W) $Kg/(m^2 * h^{0.5})$
I (W_1)	High	>0.5
II (W_2)	Medium	From 0.1 to 0.5
III (W_3)	Low	<0.1

* Classification according to Standard EN 1602-3 and EN 1602-1.

4. Determination of flexural properties, UNE-EN ISO 178:2003

Test tube no.	Flexural modulus of elasticity (kN/mm^2)	Tension (MPa)
1	1,25	9,0
2	1,33	10,2
3	1,25	10,1
4	1,31	10,3
5	1,21	9,6
Average	**1,3**	**9,8**

CLASSES OF FLEXURAL MODULUS OF ELASTICITY FOR SELF-LEVELLING MORTARS							
Class	E1	E2	E5	E10	E15	E20	Greater multiples of 5
Modulus of elasticity kN/mm^2	1	2	5	10	15	20	25-30, etc.

5. Determination of resistance to impact, UNE-EN ISO 6272:2012

Surface impacts were performed using a spherical-tipped head with a diameter of 20 mm and a free mass of 1000g.

Fall height at which fissures were first observed	> 1500 mm*

* Cracks were not yet observed at this height.

Diameter of footprint produced at 1500 mm	9.5 mm
RI (resistance to impact) value for a height of 1500 mm	14.7 Nm

6. Determination of BCA wear resistance, UNE-EN 13892-4:2003

Test tube no.	***BCA WEAR RESISTANCE (µm)***
1	30
2	30
3	30
Average	***30***

CLASSES OF BCA WEAR RESISTANCE FOR SELF-LEVELLING MORTARS					
Class	***AR6***	***AR4***	***AR2***	***AR1***	***AR0.5***
Maximum depth of wear (µm)	600	400	200	100	50

7. Determination of chemical resistance, UNE-EN 13529:2003

The exposure time of agents on the product was 6 hours, 1, 3 and 7 days. The list of products used is as follows:

Chemical agent	**Observations after 6 hours, 1, 3 and 7 days in contact with the product:**
Chlorine	After 7 days in contact with the product, NO defects were observed in the test tubes used (blistering, flaking, cracking, loss of colour, etc.)
Olive oil	After 1 day in contact with the product, NO defects were observed in the test tubes used (blistering, flaking, cracking, loss of colour, etc.). After 7 days, slight colour variations were observed.
Alcohol	
Bleach	
Viakal	
Alcohol vinegar	
Lime juice	After 6 hours in contact with the product, NO defects were observed in the test tubes used (blistering, flaking, cracking, loss of colour, etc.). After 1 day, colour variations were observed. After 3 and 7 days a greater loss of colour was observed.

It should be noted that different commonly-used products can contain different ingredients and can therefore produce different results in other concentrations of more aggressive agents.

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SIMPLIFIED TEST CERTIFICATE

Nr. 14/8341-568-S

Bellaterra, 6 May 2014

TOPCRET TECNOLOGÍA EN REVESTIMENTOS, S.L. NIF: B-63700074 Gran Via de les Corts Catalanes, 828 08013 Barcelona	***BAXAB***
POLYMER-BASED SELF-LEVELLING FLOOR SCREED, UNE-EN 13813:2003.	***Results***
1. Determination of bond strength, UNE-EN 13892-8:2003	***>3.3 N/mm²***
2. Determination of surface hardness, UNE-EN 13892-6:2003	***120 N/mm²***
3. Determination of liquid water permeability, UNE-EN 1062-3:2008	***0.01 kg/m² h$^{0.5}$***
4. Determination of flexural properties, UNE-EN ISO 178:2003	***1.3 kN/mm²***
5. Determination of resistance to impact, UNE-EN ISO 6272:2012 Fall height at which first cracks were observed and diameter produced at this height:	***>14.7 Nm*** ***NO defects at 1500 mm*** ***Crater diameter: 9.5 mm***
6. Determination of BCA wear resistance, UNE-EN 13892-4:2003	***30 µm***
7. Determination of chemical resistance, UNE-EN 13529:2003	***No defects after 7 days for chlorine*** ***No defects after 1 day for bleach, olive oil, Viakal and vinegar*** ***No defects after 6 hours for lime juice***

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6. Determination of BCA wear resistance, UNE-EN 13892-4:2003	***30 µm***
7. Determination of chemical resistance, UNE-EN 13529:2003	***No defects after 7 days for chlorine*** ***No defects after 1 day for bleach, olive oil, Viakal and vinegar*** ***No defects after 6 hours for lime juice***

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