

Bellaterra : 03rd March 2020
Dossier number : **19/21100-3616**
Petitioner's reference : **TOPCRET**
Gran Via de les Corts Catalanes 828
08016 Barcelona

TEST REPORT

RECEIVED MATERIAL

On december 12th, 2019, Applus Laboratories received several applied substrates of mortar with the following reference:

BAXAB NF

REQUESTED TESTS:

- 1- Determination of liquid water permeability, UNE-EN 1062-3:2008
- 2- Determination of resistance to strong chemical attacks, UNE- EN 13529
- 3- Artificial ageing, UNE-EN 1062-11 Item 4.2 (500 hours)
- 4- Resistance to freeze-thaw cycles according to internal procedure

TESTS DATE: from 11/12/2019 to 25/02/2020

RESULTS: See annexes pages

Responsible for Construction Mat.
LGAI Technological Center, S.A.

Technician Responsible
LGAI Technological Center, S.A.

The results specified in this document correspond exclusively to the material received in Applus Laboratories and tested according to the indications that they present.

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RESULTS:

1- Determination of liquid water permeability, UNE-EN 1062-3:2008

Ceramic specimens have been used as the substrate: approximate size 150x150mm, 30 mm thick, density 1650 kg/m³ and liquid water transmission index 7,5 Kg/(m²·h^{0,5}).

After curing the product for 28 days in laboratory conditions, the test specimens undergo 3 water immersion and drying cycles, and a final drying.

Specimen no.	W (Kg/m ² h ^{0,5})
1	0,01
2	0,01
3	0,01
Mean	0,01

2- Determination of resistance to strong chemical attacks, UNE- EN 13529

After exposing the product to the selected reagents by the petitioner for 3 days, the following is observed:

Olive oil	No changes
red Wine	No changes
Alcohol	No changes
Bleach	A slight appearance of blisters is observed on the surface
Hair Dye	A slight color change is observed
Vinager	A slight color change is observed
Viakal	No changes
Lemon juice	No changes

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3- Artificial ageing, UNE-EN 1062-11 Item 4.2 (500 hours)

Equipment: UV ATLAS Chamber

Lamps: Type 2 (UVA 340)

Cycle: - 4 hours UV - (60±3) °C
- 4 horas humidity- (50±3) °C

*Test duration: **500 hous**

Expression of results:

Visual variation of appearance and defects according to standards EN ISO 4628-2; EN ISO 4628-4; EN ISO 4628-5

* After the test, the following results are observed:

- No blisters s/n UNE EN ISO 4628-2
- No cracks s/n UNE EN ISO 4628-4
- No scaled s/n UNE EN ISO 4628-5

No change variation

4- Resistance to freeze-thaw cycles according to internal procedure

Each freeze / thaw cycle consists of exposing the specimens to a temperature of -30°C for 12 hours and a subsequent immersion in water at 10°C for another 12 hours.

A total of 30 cycles have been performed, obtaining the following results:

NO type of defects such as cracking, cracking, discoloration or material degradation has been observed.

Service Quality Assurance

Applus+, guarantees that this work has been made in accordance with our Quality and Sustainability System, fulfilling the contractual conditions and legal norms.

Within our improvement program we would be grateful if you would send us any commentary that you consider oportune, to the person in charge who signs this document, or to the Quality Manager of Applus+, in the following e-mail address: satisfaccion.cliente@applus.com