



LABORATORIO CERAMICO SEBASTIAN CARPI
COLEGIO OFICIAL DE INGENIEROS INDUSTRIALES DE CASTELLÓN

C.I.F.: Q - 4670001-I

AVENIDA DEL MAR, Nº 46 - 12003 CASTELLÓN

TEL: 964 208 583 - FAX: 964 723 141

www.laboratoriocarpi.com



TEST REPORT

PETITIONER: VIDREPUR, S.A.
ADDRESS: Pol. Ind. Mijares, C/ Comercio, nº 3
CITY: ALMAZORA (Castellón)
TEST REPORT Nº: 54.435
PAGE Nº: 1 / 5
DATE OF TEST REPORT: 19/06/2015
DATE OF RECEIPT OF THE SAMPLE: 07/06/2015
DATE OF TESTS PERFORMANCE: 07- 18/06/2015
NUMBER OF TILES SUPPLIED: 100

DESCRIPTION OF THE SAMPLE:

Glass mosaic, 25 mm x 25 mm., Ref.:

-- **ELEMENTS AURA (RELIEVE)** --

Code laboratory: 193-3-15

TEST CARRIED OUT:

- UNE-EN-ISO 10545-11 : DETERMINATION OF CRAZING RESISTANCE. GLAZED TILES.
- UNE-EN-ISO 10545-13 : DETERMINATION OF CHEMICAL RESISTANCE.
- UNE-EN-ISO 10545-14 : DETERMINATION OF RESISTANCE TO STAINS.
- UNE 67101 and 1M : DETERMINATION OF SCRATCH HARDNESS ACCORDING TO MOHS.

**JOSE ANTONIO I
ESTIBALEZI
CATALAN**

Firmado digitalmente por JOSE ANTONIO I
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serialNumber=18922203B
Fecha: 2016.02.10 18:12:54 +01'00'

José A. Estibález Catalán
MANAGER

The samples and his description have been chosen by the petitioner.

The reported results relate only to the samples tested.

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Petitioner: VIDREPUR

Date: 19/06/2015

DETERMINATION OF CRAZING RESISTANCE

*** GLAZED TILES ***

DESCRIPTION OF THE SAMPLE.-

Glass mosaic, 25 mm x 25 mm,. Ref.:

-- **ELEMENTS AURA (RELIEVE)** --

Code laboratory: 193-3-15

RESULTS.- (Test performed after **UNE-EN-ISO 10545 Part 11:1997**)

* Number of tiles tested: **Five**

* Number of tiles showing crazing: **Not - one.**

* Description of crazing: The tiles tested are free from crazes on the glazed surface.





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DETERMINATION OF CHEMICAL RESISTANCE

DESCRIPTION OF THE SAMPLE.-

Glass mosaic, 25 mm x 25 mm., Ref.:

-- **ELEMENTS AURA (RELIEVE)** --

Code laboratory: 193-3-15

RESULTS.- (Test performed after **UNE-EN-ISO 10545 Part 13:1998**)

* Number of test specimens used with each test solution: FIVE.

<u>Test solutions</u>	<u>Classification</u>	<u>Visual Changes</u>
* <u>Household chemicals</u> - Ammonium Chloride	GA	- No visible effects.
* <u>Swimming pool salts</u> - Sodium Hypochlorite	GA	- No visible effects.
* <u>Acids and Alkalis</u> (Low concentrations) - Hydrochloric Acid	GLA	- No visible effects.
- Citric Acid	GLA	- No visible effects.
- Potassium Hydroxide	GLA	- No visible effects.
* <u>Acids and Alkalis</u> (High concentrations) - Hydrochloric Acid	GHA	- No visible effects.
- Lactic Acid	GHA	- No visible effects.
- Potassium Hydroxide	GHA	- No visible effects.



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Date: 19/06/2015

DETERMINATION OF RESISTANCE TO STAINS

DESCRIPTION OF THE SAMPLE.-

Glass mosaic, 25 mm x 25 mm,. Ref.:

-- **ELEMENTS AURA (RELIEVE)** --

Code laboratory: 193-3-15

RESULTS.- (Test performed after **UNE-EN-ISO 10545 Part 14:1998**)

* Number of test specimens used with each test solution: FIVE.

<u>Staining Agents</u>	<u>Cleaning Procedure</u>	<u>Class</u>	<u>Observations</u>
* <u>Stains having tracing action (Pastes).</u> - Green staining agent in light oil	- Running hot water for five minutes. (Procedure A).	5	- Stain removed.
* <u>Stains having chemical / oxidizing action</u> - Iodine alcohol solution	- Running hot water for five minutes. (Procedure A).	5	- Stain removed.
* <u>Stains having filming action</u> - Olive oil	- Running hot water for five minutes. (Procedure A).	5	- Stain removed.

* Observations: The chromium oxide used as green staining agent have a grain size less than 80 microns, being the 50 % (m/m) of theirs down on 3 microns.



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DETERMINATION OF SCRATCH HARDNESS ACCORDING TO MOHS

DESCRIPTION OF THE SAMPLE.-

Glass mosaic, 25 mm x 25 mm,. Ref.:

-- **ELEMENTS AURA (RELIEVE)** --

Code laboratory: 193-3-15

RESULTS.- (Test performed after Standard **UNE 67-101:1985 and UNE 67-101/1M:1992**) (*)

Tile

Mohs Hardness

1

4

2

4

3

4

(*) Note: This standards are repealed since 18.03.2009.