



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: 54.436
 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 ETNA (RELIEVE)** --

Code laboratory: 193-4-15

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.

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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Test report n°: 54.436

Page n° : 2 / 5

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DETERMINATION OF CRAZING RESISTANCE

*** GLAZED TILES ***

DESCRIPTION OF THE SAMPLE.-

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

-- **ELEMENTS ETNA (RELIEVE)** --

Code laboratory: 193-4-15

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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Test report n°: 54.436

Page n° : 3 / 5

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DETERMINATION OF CHEMICAL RESISTANCE

DESCRIPTION OF THE SAMPLE.-

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

-- **ELEMENTS ETNA (RELIEVE)** --

Code laboratory: 193-4-15

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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Test report n°: 54.436

Page n° : 4 / 5

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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 ETNA (RELIEVE)** --

Code laboratory: 193-4-15

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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Page n° : 5 / 5

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DETERMINATION OF SCRATCH HARDNESS ACCORDING TO MOHS

DESCRIPTION OF THE SAMPLE.-

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

-- **ELEMENTS ETNA (RELIVE)** --

Code Laboratory: 193-4-15

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

