



LABORATORIO CERAMICO SEBASTIAN CARPI
COLEGIO OFICIAL DE INGENIEROS INDUSTRIALES DE CASTELLON

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

AVENIDA DEL MAR, Nº 46 - 12003 CASTELLON
TEL: 964 208 583 - FAX: 964 202 594
www.laboratoriocarpi.com

TEST REPORT

PETITIONER: VIDREPUR, S.A.
ADDRESS: C/ Comercio, nº 4
CITY: ALMAZORA (Castellón)
TEST REPORT Nº: 51.644
PAGE Nº: 1 / 5
DATE OF TEST REPORT: 29/05/2012
DATE OF RECEIPT OF THE SAMPLE: 18/05/2012
DATE OF TESTS PERFORMANCE: 18 - 28/05/2012
NUMBER OF TILES SUPPLIED: 1 m²

DESCRIPTION OF THE SAMPLE:

Glass mosaic, 25 x 25 mm. Ref.:

-- **Serie "COLORS"** --

Code Lab.: 184-1-12

TEST PERFORMED:

- UNE-EN-ISO 10545-3 : DETERMINATION OF WATER ABSORPTION.
- 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.



José A. Estibalez 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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DETERMINATION OF WATER ABSORPTION

DESCRIPTION OF THE SAMPLE.-

Glass mosaic, 25 x 25 mm. Ref.:

-- Serie "COLORS" --

Code Lab.: 184-1-12

RESULTS.- (Test performed after **UNE-EN-ISO 10545 Part 3:1997**)

* Water absorption for each tile (**Boiling method "E_b"**):

Tile	Water absorption (E_b) (%)
1	0.1
2	0.0
3	0.1
4	0.1
5	0.1

* Average water absorption of the sample: **0.1 %**

* Measurement uncertainty: **U = ± 0.1 % (k=2)**

* Average value uncertainty: **U = ± 0.1 % (k=2)**



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DETERMINATION OF CRAZING RESISTANCE
*** GLAZED TILES ***

DESCRIPTION OF THE SAMPLE.-

Glass mosaic, 25 x 25 mm. Ref.:

-- **Serie "COLORS"** --

Code Lab.: 184-1-12

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



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DESCRIPTION OF THE SAMPLE. -

Glass mosaic, 25 x 25 mm. Ref.:

-- Serie "COLORS" --

Code Lab.: 184-1-12

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 (Low concentrations)</u> - Hydrochloric Acid	GLA	- No visible effects.
- Citric Acid	GLA	- No visible effects.
- Potassium Hydroxide	GLA	- No visible effects.
* <u>Acids and Alkalis (High concentrations)</u> - Hydrochloric Acid	GHA	- No visible effects.
- Lactic Acid	GHA	- No visible effects.
- Potassium Hydroxide	GHA	- No visible effects.



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DETERMINATION OF RESISTANCE TO STAINS

DESCRIPTION OF THE SAMPLE.-

Glass mosaic, 25 x 25 mm. Ref.:

-- Serie "COLORS" --

Code Lab.: 184-1-12

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</u> (Pastes). - 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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