



**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 m<sup>2</sup>

### 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.

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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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Page nº : 2 / 5

Petitioner: VIDREPUR

Date: 29/05/2012

## 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<sub>b</sub>"**):

<b>Tile</b>	<b>Water absorption (E<sub>b</sub>) (%)</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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Page nº : 3 / 5

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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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Page n° : 4 / 5

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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 .....	<b>GA</b>	- No visible effects.
* <u>Swimming pool salts</u> - Sodium Hypochlorite .....	<b>GA</b>	- No visible effects.
* <u>Acids and Alkalis (Low concentrations)</u> - Hydrochloric Acid .....	<b>GLA</b>	- No visible effects.
- Citric Acid .....	<b>GLA</b>	- No visible effects.
- Potassium Hydroxide .....	<b>GLA</b>	- No visible effects.
* <u>Acids and Alkalis (High concentrations)</u> - Hydrochloric Acid .....	<b>GHA</b>	- No visible effects.
- Lactic Acid .....	<b>GHA</b>	- No visible effects.
- Potassium Hydroxide .....	<b>GHA</b>	- No visible effects.





## 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).	<b>5</b>	- Stain removed.
* <u>Stains having chemical / oxidizing action</u> - Iodine alcohol solution .....	- Running hot water for five minutes. (Procedure A).	<b>5</b>	- Stain removed.
* <u>Stains having filming action</u> - Olive oil .....	- Running hot water for five minutes. (Procedure A).	<b>5</b>	- 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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