



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: 49.800
PAGE Nº: 1 / 5
DATE OF TEST REPORT: 01/03/2011
DATE OF RECEIPT OF THE SAMPLE: 16/02/2011
DATE OF TESTS PERFORMANCE: 16 - 28/02/2011
NUMBER OF TILES SUPPLIED: 250

DESCRIPTION OF THE SAMPLE:

Glass mosaic, 25 x 25 mm. Ref.:

-- **Serie "ESSENTIALS"** --

Code Lab.: 66-11

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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CASTELLÓN
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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Date: 01/03/2011

DETERMINATION OF WATER ABSORPTION

DESCRIPTION OF THE SAMPLE.-

Glass mosaic, 25 x 25 mm. Ref.:

-- Serie "ESSENTIALS" --

Code Lab.: 66-11

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

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

| <u>Tile</u> | <u>Water absorption (E_b)</u> (%) |
|-------------|--|
| 1 | 0.1 |
| 2 | 0.1 |
| 3 | 0.1 |
| 4 | 0.1 |
| 5 | 0.0 |

* 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 "**ESSENTIALS**" --

Code Lab.: 66-11

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

* Number of tiles tested: **Twenty.**

* 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 x 25 mm. Ref.:

-- Serie "ESSENTIALS" --

Code Lab.: 66-11

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 "ESSENTIALS" --

Code Lab.: 66-11

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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