TEST REPORT: 20207368/3

Modena, 11/12/20

CUSTOMER

FLORIM CERAMICHE SPA - - VIA CANALETTO 24 - 41042 - FIORANO MODENESE - MO

MATERIAL and/o SAMPLE to be tested

Porcelain tiles;

Denomination

Serie Reves de Rex - Articolo Bleu Magnum glossy - spessore 6 mm - formato 160x320 cm - marchio Rex;

Date of sample reception

10/11/2020;

Kind of test executed

Determination of Chemical Resistance

Referring standards

UNI EN ISO 10545-13:2017

Shifting from standards

No one

Equipment

Forced ventilation stove cod. MCP C43

Subcontracted phases

No one

Sampling made by

Customer

The test results reported in this Test Report refer only to the sample sampled by our staff and / or given by the Customer as received.

The sample identification data were provided by the customer. Further additional information provided by the Customer will be reported in the Test Report in blue color. If the information provided by the customer influences the validity of the results, MCP declines all responsibility.

Any changes / additions made to the Test Report after its first issue will be identified by underlining the text.

The Customer undertakes to reproduce this document in its entirety. Any form of partial reproduction is prohibited.

The storage times of the samples are indicated on the offer or contract to which this Test Report refers.

Examiner

p.i. Bortolari Alberto

MODENA CENTRO PROVE

p.i. De Pasquale Roberto

Directo

Sant'Unione dr. Giuseppe

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**DETERMINATION OF CHEMICAL RESISTANCE**

Beginning date: 30/11/2020  
Analysis ending date: 04/12/2020

**SAMPLE**: Ceramic tiles, marked «Serie Reves de Rex - Articolo Bleu Magnum glossy - spessore 6 mm - formato 160x320 cm - marchio Rex»

**CLASSIFICATION**

- **Normal classification**
  - HB Pencil test (untreated tile)
    - Remove? (NO) → Use alternative classification
    - YES → Chemical attack
      - Household chemicals and swimming pool salts
      - Low concentration acids and alkalis
      - High concentration acids and alkalis

- **Alternative visual classification**
  - HB pencil test (untreated tile)
    - Remove? (YES) → Use normal classification
    - NO → Chemical attack
      - Household chemicals and swimming pool salts
      - Low concentration acids and alkalis
      - High concentration acids and alkalis

- Visual examination
  - NO → Visible effect?
  - YES → HB pencil test (treated tile)
    - Remove? (NO) → Reflection test?
    - YES → Class C
    - NO → Class B
  - YES → Class A

- Visual effect?
  - NO → partial or complete loss of original surface?
  - YES → Class (A,B,C)
# RESULTS

<table>
<thead>
<tr>
<th>TEST SOLUTIONS</th>
<th>Period of Test</th>
<th>CLASS OF RESISTANCE Sample 1</th>
<th>CLASS OF RESISTANCE Sample 2</th>
<th>CLASS OF RESISTANCE Sample 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium chloride 100 g/l</td>
<td>24 hours</td>
<td>A</td>
<td>A</td>
<td>A</td>
</tr>
<tr>
<td>Sodium hypochlorite solution 20 mg/l</td>
<td>24 hours</td>
<td>A</td>
<td>A</td>
<td>A</td>
</tr>
<tr>
<td>Citric acid solution 100 g/l</td>
<td>24 hours</td>
<td>LA</td>
<td>LA</td>
<td>LA</td>
</tr>
<tr>
<td>Hydrochloric acid solution 3% (V/V)</td>
<td>(96±1) hours</td>
<td>LA</td>
<td>LA</td>
<td>LA</td>
</tr>
<tr>
<td>Potassium hydroxide 30 g/l</td>
<td>(96±1) hours</td>
<td>LB</td>
<td>LB</td>
<td>LB</td>
</tr>
<tr>
<td>Hydrochloric acid solution 18% (V/V)</td>
<td>(96±1) hours</td>
<td>HA</td>
<td>HA</td>
<td>HA</td>
</tr>
<tr>
<td>Lactic acid 5% (V/V)</td>
<td>(96±1) hours</td>
<td>HA</td>
<td>HA</td>
<td>HA</td>
</tr>
<tr>
<td>Potassium hydroxide 100 g/l</td>
<td>(96±1) hours</td>
<td>HB</td>
<td>HB</td>
<td>HB</td>
</tr>
</tbody>
</table>