



Scandiano, 02/08/2016



Messrs **FLORIM CERAMICHE S.p.a.**

Via Canaletto, 24
41042 FIORANO MODENESE
(MO)

Confidential Test Report N. 0434/2016 /I
on ceramic tiles defined by UNI EN 14411:2012

Our ref.num.: 16402
Date of request: 01/20/2016

Test Specimen

"Unglazed paver tiles 60x60 cm marked:
Articolo Bone SA naturale serie Buildtech superficie UGL formato 60x60 cm spessore 1cm
marchio Floor Gres"

Source

Submitted to Laboratory by Client

Date Received

01/21/2016

Time of test execution

start: 01/21/2016 end: 02/08/2016

Test detail / method description / test procedure

" Determination of chemical resistance -
Standard UNI EN ISO 10545 - 13:2000 "

The report relates only to the sample(s) tested. This report must not be reproduced in part without the written permission of Main Laboratory Sassuolo, nor used in any way as to lead to misrepresentation of the results or their implications.

Page 1 of 3

Mod. P039/1 rev.01



LAB N° 1170

Confidential Test Report N. 0434/2016 /I
FLORIM CERAMICHE S.p.a.

Page 2 of 3

Date 02/08/2016

Test specimen

"Unglazed paver tiles 60x60 cm marked:
 Articolo Bone SA naturale serie Buildtech superficie UGL formato 60x60 cm spessore 1cm
 marchio Floor Gres"

DETERMINATION OF CHEMICAL RESISTANCE
(Standard UNI ISO EN 10545 - 13:2000)

Definition: *subjection of the test specimens to the action of the test solutions and visual determination of attack after a defined period.*

Number of test specimens: **5 each test solution.**

Test solutions

| | Class of resistance | | | | |
|--|---------------------|----------|----------|----------|----------|
| | Sample 1 | Sample 2 | Sample 3 | Sample 4 | Sample 5 |
| <u>Household chemicals</u> | | | | | |
| ammonium chloride solution, 100 g/l | U A | U A | U A | U A | U A |
| <u>Swimming pool salts</u> | | | | | |
| sodium hypochlorite solution, 20 mg/l | U A | U A | U A | U A | U A |
| <u>Acids (low concentrations)</u> | | | | | |
| hydrochloric acid solution, 3 % (V/V) | UL A | UL A | UL A | UL A | UL A |
| citric acid solution, 100 g/l | UL A | UL A | UL A | UL A | UL A |
| <u>Alkalis (low concentrations)</u> | | | | | |
| potassium hydroxide solution, 30 g/l | UL A | UL A | UL A | UL A | UL A |
| <u>Acids (high concentrations)</u> | | | | | |
| hydrochloric acid solution, 18 % (V/V) | UH A | UH A | UH A | UH A | UH A |
| lactic acid solution, 5 % (V/V) | UH A | UH A | UH A | UH A | UH A |
| <u>Alkalis (high concentrations)</u> | | | | | |
| potassium hydroxide solution, 100 g/l | UH A | UH A | UH A | UH A | UH A |

Determination of class:

Household chemicals, swimming pool salts:

Class UA: no visible effect

Class UB: visible effects on cut sides

Class UC: visible effects on cut sides, non-cut sides and on the proper surface

Mod. P039.1 rev.01





Main Laboratory Sassuolo

Centro di Ricerca, Sperimentazione, Consulenza e Controllo Qualità



LAB N° 1170

Confidential Test Report N. 0434/2016 /I

Page 3 of 3

Date 02/08/2016

FLORIM CERAMICHE S.p.a.

Test specimen

"Unglazed paver tiles 60x60 cm marked:

Articolo Bone SA naturale serie Buildtech superficie UGL formato 60x60 cm spessore 1cm marchio Floor Gres"

Acids and alkalis, low concentrations:

Class ULA: no visible effect

Class ULB: visible effects on cut sides

Class ULC: visible effects on cut sides, non-cut sides and on the proper surface

Acids and alkalis, high concentrations:

Class UHA: no visible effect

Class UHB: visible effects on cut sides

Class UHC: visible effects on cut sides, non-cut sides and on the proper surface



THE DIRECTOR
(M.E. Simioli)

Mod. P039/1 rev.01