



Scandiano, 06/10/2014



Messrs **ITALGRANITI GROUP S.p.A**

Via Radici in Piano, 355
41043 CASINALBO DI FORMIGINE
(MO)

Confidential Test Report N. 2411/2014 /I
on ceramic tiles defined by UNI EN 14411:2012

Our ref.num.: 12190
Date of request: 05/15/2014

Test Specimen

"Unglazed paver tiles 60x60 cm marked:
Stone D quartzite dorada 60x60 spessore 2cm (SD01682 01 A50 D)"

Source

Submitted to Laboratory by Client

Date Received

05/15/2014

Time of test execution

start: 05/15/2014 end: 06/10/2014

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.

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Test specimen

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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

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Test specimen

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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.L. Simioli)

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