



TEST REPORT

**CERAMIC TILES - DETERMINATION OF CHEMICAL RESISTANCE
UNI EN ISO 10545-13: 2017**

Test report n. 4615/2017 /I

Date of report: 12/14/2017

Customer: FLORIM CERAMICHE S.p.a.
Via Canaletto, 24
41042 FIORANO MODENESE (MO)

Requested on: 12/04/2017

Our ref.number: 21367

Execution place of tests: Scandiano (RE)

Description of the sample: "Ceramic tiles 30x60 cm
marked: Serie Le Veneziane, articolo Dorsoduro, superficie R+PTV,
spessore 10 mm, marchio Cerim""

Sampling: carried out by the customer

Receipt date of samples: 12/05/2017

Execution date of tests: start: 12/07/2017 end: 12/12/2017

Test specification: UNI EN ISO 10545 - 13:2017
Determination of chemical resistance

Warnings: *This test report can not be reproduced in part, without our written consent.
The reported results relate only to the samples tested.
The information included in quotation marks was provided by the customer.*





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Principle: Subjection of the test specimens to the action of the test solutions and visual determination of attack after a defined period.

Sample preparation: the specimens were prepared as described at point 7.3 of the Standard

Number of samples tested: 3 for each test solution

Pencil test: **passed (normal classification)**

Procedure followed: contact on proper surface

Test solution	Classification (Class)		
	Specimen 1	Specimen 2	Specimen 3
Household chemicals			
ammonium chloride sol., 100 g/l	A	A	A
Swimming pool salts			
sodium hypochlorite sol., 20 mg/l	A	A	A
Acids (low concentrations)			
hydrochloric acid sol., 3 % (V/V)	L A	L A	L A
citric acid solution, 100 g/l	L A	L A	L A
Alkalis (low concentrations)			
potassium hydroxide sol., 30 g/l	L A	L A	L A
Acids (high concentrations)			
hydrochloric acid sol., 18 % (V/V)	H A	H A	H A
lactic acid solution, 5 % (V/V)	H A	H A	H A
Alkalis (high concentrations)			
potassium hydroxide sol., 100 g/l	H A	H A	H A

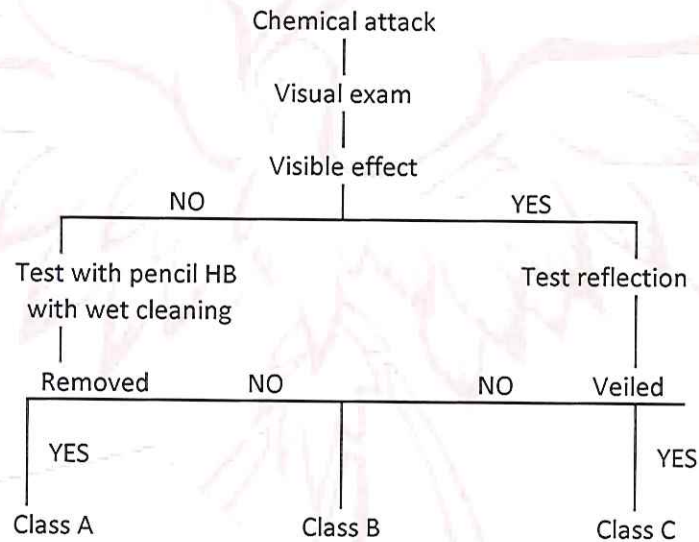




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Classification for resistance to chemical attack for the glazed tiles
Case of "normal Classification"



Alternative classification for resistance to chemical attack for the glazed tiles
Case of "Normal classification not possible"

- Class GA(V)-GLA(V)-GHA(V): no visible effect
- Class GB(V)-GLB(V)-GHB(V): effective changes in appearance
- Class GC(V)-GLC(V)-GHC(V): partial or complete loss of original surface

End of the document



THE DIRECTOR
 (Signature)