

**Testing, Experimentation and Quality Control Laboratory**

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**TEST REPORT n. 2592/2024/I****CERAMIC TILES****UNI EN ISO 10545-13:2017****DETERMINATION OF CHEMICAL RESISTANCE**

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Date of report:	27/04/2024
Customer:	<b>NUOVOCORSO S.p.A.</b>  Via Mulini Valle Tresinaro, 11 42033 ZOCCADELLO DI ONFIANO - CARPINETI (RE)
Requested on:	14/03/2024
Our ref.number:	37347
Execution place of tests:	Scandiano (RE)
Description of the sample:	"Glazed ceramic tiles 300x600x12 mm marked: Glazed Dry-pressed ceramic tiles with low water absorption $E_v \leq 0,5 \%$ Group BIa, Rectified"
Sampling:	carried out by the customer
Receipt date of samples:	14/03/2024
Execution date of tests:	start: 28/03/2024                      end: 02/04/2024
Test specification:	UNI EN ISO 10545-13:2017 Ceramic tiles - Determination of chemical resistance
Warnings:	<i>This test report may not be reproduced in part without our written approval. The results reported only refer to the samples tested, as received, and are only valid under the conditions in which the work was carried out. The information enclosed in inverted commas was provided by the customer and the laboratory accepts no liability for it.</i>

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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

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

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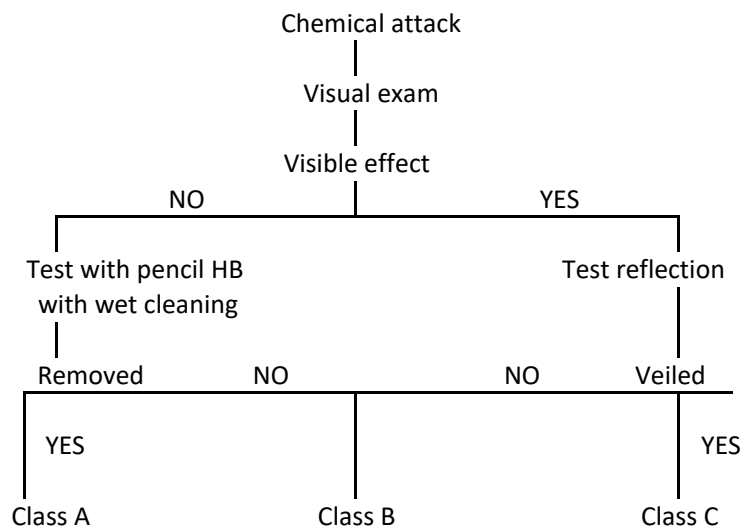
**CERAMIC TILES**

**UNI EN ISO 10545-13:2017**

**DETERMINATION OF CHEMICAL RESISTANCE**

Classification for resistance to chemical attack

Case of "normal Classification"



Alternative classification for resistance to chemical attack

Case of "Normal classification not possible"

Class A(V)-LA(V)-HA(V): no visible effect

Class B(V)-LB(V)-HB(V): effective changes in appearance

Class C(V)-LC(V)-HC(V): partial or complete loss of original surface



The Director  
Giulia Gaido