
TEST REPORT n. 4708/2020/I

CERAMIC TILES - DETERMINATION OF CHEMICAL RESISTANCE

UNI EN ISO 10545-13: 2017

Date of report:	11/24/2020
Customer:	NUOVOCORSO S.p.A. Via Mulini Valle Tresinaro, 11 42033 ZOCCADELLO DI ONFIANO - CARPINETI (RE)
Requested on:	11/04/2020
Our ref.number:	28787
Execution place of tests:	Scandiano (RE)
Description of the sample:	"Portion of ceramic tiles glazed 60x60 cm obtained by cutting to original size 160x320 cm marked: GLAZED PORCELAIN TILES RECTIFIED"
Sampling:	carried out by the customer
Receipt date of samples:	11/04/2020
Execution date of tests:	start: 11/09/2020 end: 11/13/2020
Test specification:	UNI EN ISO 10545 - 13:2017 Determination of chemical resistance
Warnings:	<i>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.</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>	Classification (Class)		
	Specimen 1	Specimen 2	Specimen 3
<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 A	L A	L A
<u>Alkalis (low concentrations)</u>			
potassium hydroxide sol., 30 g/l	L C	L C	L C
<u>Acids (high concentrations)</u>			
hydrochloric acid sol., 18 % (V/V)	H C	H C	H C
lactic acid solution, 5 % (V/V)	H B	H B	H B
<u>Alkalis (high concentrations)</u>			
potassium hydroxide sol., 100 g/l	H C	H C	H C

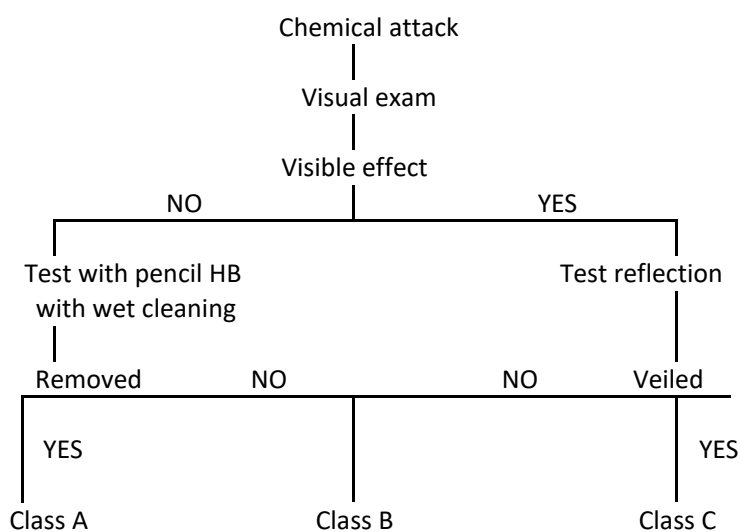
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Classification for resistance to chemical attack

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

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