

SEDE

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CERTI.CER.

LABORATORIO DI ZONA

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Part. IVA 0094778-0375

Bologna, 27/01/15

TEST REPORT N° 2174/15

concerning ceramic tiles according to
EN 14411 (ISO 13006)

Requested by:	FLORIM CERAMICHE S.p.A. - Via Canaletto 24 – 41042 FIORANO MODENESE (MO)
On (date):	21/01/15
For the sample marked:	Glazed ceramic tiles of different sizes marked "Brand CERIM – Serie MATERIAL STONES OF CERIM".

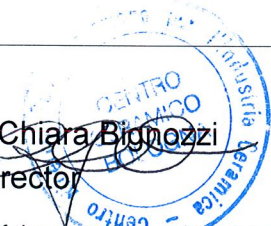
EN ISO 10545-13 § 8 - Determination of chemical resistance - Glazed tiles

Test solutions	Class of resistance				
	Test specimen 1	Test specimen 2	Test specimen 3	Test specimen 4	Test specimen 5
Household Chemicals:					
Ammonium Chloride 100g/l	GA(V)	GA(V)	GA(V)	GA(V)	GA(V)
Swimming pool salts:					
Sodium hypochlorite 20mg/l	GA(V)	GA(V)	GA(V)	GA(V)	GA(V)
Acids:					
Hydrochloric acid 3% V/V	GLA(V)	GLA(V)	GLA(V)	GLA(V)	GLA(V)
Citric acid 100g/l	GLA(V)	GLA(V)	GLA(V)	GLA(V)	GLA(V)
Alkali:					
Potassium Hydroxide 30g/l	GLA(V)	GLA(V)	GLA(V)	GLA(V)	GLA(V)
Acids:					
Hydrochloric acid 18%V/V	GHA(V)	GHA(V)	GHA(V)	GHA(V)	GHA(V)
Lactic acid 5% V/V	GHA(V)	GHA(V)	GHA(V)	GHA(V)	GHA(V)
Alkali:					
Potassium Hydroxide 100g/l	GHA(V)	GHA(V)	GHA(V)	GHA(V)	GHA(V)

CLASSIFICATION (Pencil test and/or reflexion test are not applicable:)

<p><i>U: Unglazed tiles</i> <i>G: Glazed tiles</i> <i>L: Low concentration chemicals</i> <i>H: High concentration chemicals</i></p>	<p><i>Class A(V): no visible effect</i> <i>Class B(V): definitive change in appearance</i> <i>Class C(V): partial or complete loss of the surface</i></p>
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Prof. Maria Chiara Bignozzi
Director



The results reported relate only to the samples tested. No responsibility is taken for the accuracy of the sampling unless it is done under our own supervision. The reproduction of this test report is only authorized in the form of a complete photographic facsimile. Our written approval is necessary for any partial reproduction. This test report consists of 1 pages, this cover included.



Consorzio universitario per la gestione del «Centro di ricerca e sperimentazione per l'industria ceramica».
D.P.R. 10-4-1978 n. 806
(G.U. 20-12-1978 n. 353)

Laboratorio autorizzato ad effettuare il servizio di rilevamento dell'inquinamento atmosferico.
Decreto MINISTERO SANITÀ 10-8-1974 (G.U. 14-9-1974 n. 240)

Laboratorio iscritto nell'albo dei «Laboratori Esterni Pubblici e Privati Altamente Qualificati».
Decreto MINISTERO RICERCA SCIENTIFICA 6-6-1983 (G.U. 6-7-1983 n. 183)

Membro ASTM
American Society for Testing and Materials.