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Laboratory for Experimental and Technological Ceramics and Brick Industries

TEST REPORT

TS N°: 074/18eng

DATE 04/05/2018

Spett.le
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42013 CASALGRANDE RE

UNI EN ISO 10545-13 : 2017

DETERMINATION OF CHEMICAL RESISTANCE

This norm defines a method of test for determining the chemical resistance of ceramic tiles at room temperature. The method is applicable to all types of ceramic tiles.

Samples arrived 24/04/2018 (sampling executed by Costumer)

DESCRIPTION TILES : 100x100 cm
TYPE : 1A8 CERCOM TO BE 1061434 TO BE GESSO RET

Test start 26/04/2018
Test finished 30/04/2018

Test solutions for chemical resistance: hydrochloric acid solution 3% and 18% (v/v) for 4 days; citric acid solution (100 g/l) for 4 days; potassium hydroxide 30 e 100 g/l for 4 days; sodium hypochlorite solution (20 mg/l) for 1 day; ammonium chloride solution (100 g/l) for 1 day and lactic acid solution 5% (v/v) for 4 days.

TEST SAMPLES : Every solution has been tried on n° 5 fragments of floor tile .

Classification

<i>Household chemicals :</i>	ammonium chloride	A class
<i>Swimming pool salts :</i>	sodium hypochlorite	A class
<i>Acids and alkalies low concentrations</i>		
	citric acid	LA class
	hydrochloric acid	LA class
	potassium hydroxide	LA class
<i>Acids and alkalies high concentrations</i>		
	lactic acid	HA class
	hydrochloric acid	HA class
	potassium hydroxide	HA class

Laboratory Head
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