

**TEST REPORT**

OUR REF. 599/04

DATE 16/11/2004

Spett.le  
 CERAMICA  
 SERENISSIMA C.I.R. S.p.A.  
 Stabilimento ROTEGLIA RE  
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**UNI EN ISO 10545-13**

## 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 at 10/11/2004 (sampling executed by Commitment)**

**DESCRIPTION TILES** : 31,7x31,7 cm  
**SERIES** : "QUINTANA"  
**TYPE** : "MORLUPO A 55"

**Test solutions for chemical resistance:** hydrochloric acid solution 3% and 18% (v/v) for 12 days; citric acid solution (100 g/l) for 12 days; potassium hydroxide 30 e 100 g/l for 12 days; sodium hypochlorite solution (20 mg/l) for 12 days; ammonium chloride solution (100 g/l) for 12 days and lactic acid solution 5% (v/v) for 12 days.

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

**Classification**

*Household chemicals* : ammonium chloride  
*Swimming pool salts* : sodium hypochlorite

**GA class**  
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*Acids and alkalis low concentrations*  
 citric acid  
 hydrochloric acid  
 potassium hydroxide

**GLA class**  
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