



Industrial Research Services

Materials Science & Engineering, Graham Road (PO Box 56), Highett, Victoria, Australia 3190
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Registered Testing Authority - CSIRO

16 May 2008

Our Ref. EN13 / 1498 03/0212

TEST REPORT No. 4379

Requested by: AMALFI Mosaics Pty Ltd
on (date): 6 May 2008
Manufacturer: AMALFI Ceramics
Product Desc.: Wu Xi Summer Sky, Batch N370
50x50 Mosaic Glazed Tile

Sampling details:
Where: Delivered
Date: 6 May 2008
By whom: Courier
How (methods): N/A

The results reported relate only to the sample(s) tested and the information received. No responsibility is taken for the accuracy of the sampling unless it is done under our own supervision. CSIRO cannot accept responsibility for deviations in the manufactured quality and performance of the product. While CSIRO takes care in preparing the reports it provides to clients, it does not warrant that the information in this particular report will be free of errors or omissions or that it will be suitable for the client's purposes. CSIRO will not be responsible for the results of any actions taken by the client or any other person on the basis of the information contained in the report or any opinions expressed in it. The reproduction of this test report is only authorised in the form of a complete photographic facsimile. Our written approval is necessary for any partial reproduction.

This test report consists of 3 pages

SUMMARY OF TESTS PERFORMED:

AS 4459-13:1999

Determination of chemical resistance:

PASS

CSIRO

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DETERMINATION OF CHEMICAL RESISTANCE

(Procedure for Glazed Tiles)

TEST CARRIED OUT IN ACCORDANCE WITH
 AS 4459-13:1999 [Equiv. to ISO 10545-13:1995]

Test Date: 16 May 2008

RESULTS:	Location:	Ceramic Tile Laboratory					
Test Solutions:	Specimen:	1	2	3	4	5	Visible changes observed
Household chemicals:							
Ammonium chloride - 100 g/l:		GA	GA	GA	GA	GA	Pencil removed with damp cloth
Swimming pool salts:							
Sodium hypochlorite - 20 mg/l:		GA	GA	GA	GA	GA	Pencil removed with damp cloth
Acids & Alkalies (low conc.):							
Hydrochloric acid - 3% (v/v):		GLA	GLA	GLA	GLA	GLA	Pencil removed with damp cloth
Citric acid - 100 g/l:		GLA	GLA	GLA	GLA	GLA	Pencil removed with damp cloth
Potassium hydroxide - 30 g/l:		GLA	GLA	GLA	GLA	GLA	Pencil removed with damp cloth
Acids & alkalies (high conc.):							
Hydrochloric acid - 18% (v/v):		GHA	GHA	GHA	GHA	GHA	Pencil removed with damp cloth
Lactic acid - 5% (v/v):		GHA	GHA	GHA	GHA	GHA	Pencil removed with damp cloth
Potassium hydroxide - 100 g/l:		GHA	GHA	GHA	GHA	GHA	Pencil removed with damp cloth

Classification requirements according to AS 4662 (ISO 13006) GROUP:

Classification information for glazed tiles:

Household Chemicals, Swimming Pool Salts	Acids & Alkalies low concentrations	Acids & Alkalies; high concentrations	
Class: GA	Class: GLA	Class: GHA	No visible effect
Class: GB	Class: GLB	Class: GHB	Pencil not removed or clear reflection
Class: GC	Class: GLC	Class: GHC	Blurred reflection

Requirements:

Resistance to household chemicals and swimming water cleaners, except to cleaning agents containing hydrofluoric acid and its compounds: Minimum Class GB or UB (except for group BIII)

INFORMATIVE ANNEX P FROM AS 4662:2003 (ISO 13006:1998)

Ceramic tiles are normally resistant to common chemicals. The test for high concentrations of acids and alkalis listed above is intended for ceramic tiles which are to be used in potentially corrosive conditions.



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Date and Place 16 May 2008, Highett, Vic

Name, Title and Digital Signature:



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Consulting services are available if further detailed analysis of the test results are required.

PR:W200508-15:39:16