



Industrial Research Services

Materials Science & Engineering, 37 Graham Road (PO Box 56), Highett, Victoria 3190, Australia
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Registered Testing Authority - CSIRO

09 July 2009

Our Ref. EN13 / 816 03/0212

TEST REPORT No.4952B

Requested by: Scelta Marble Australia Pty Ltd
on (date): July 2009
Manufacturer: Quarella (Australia) Pty Ltd
Product Desc: Quarella marble composite, honed, treated with AntiAcid (1Hr) & sealed

Sampling details:
Where: Delivered
Date: July 2009
By Whom: Client
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 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 or 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.

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This test report consists of 4 pages

SUMMARY OF TESTS PERFORMED:

CSIRO was engaged by Scelta Marble Australia Pty Ltd to assess the properties of the AntiAcid (1Hr) treatment on the marble sample against an acid attack. The "acid" selected by the client was a white vinegar.

The vinegar was allowed to stand on the surface of the samples for a predetermined period before being rinsed clear with running water and dried. Cleaning cloths and soap solutions were not used.

The control surface exhibited a surface failure in five minutes. The failure of the AntiAcid (1Hr) treated surface after 20 minutes is approximately equal to 15% deterioration value of the control (untreated surface) after 5 minutes.



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REPORT NO: 4952B Page 2 of 4
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ASSESSMENT OF ACID RESISTANCE OF SURFACE COATING

Test Date: 8 June 2009

RESULTS: Location: Ceramic Laboratory
Temperature: 23°C
Acid liquid: Vinegar

Sample #	Assessment period (minutes)				
	5	10	15	20	25
Control	s	n/a	n/a	n/a	n/a
1	ns	ns	ns	s	s
2	ns	ns	ns	s	s
3	ns	ns	ns	s	s

Notes:

ns: not stained
s: stained

Physical Effects:

Control:
Etched to surface – sealant fully removed
Smooth over acid application
Visually mottled

Test Samples
Intermittent etching of surface sealant
Rough to feel, intermittent penetration of sealant
Visually mottled but light after 20 minutes

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Treated surface (left) and control (untreated surface)



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REPORT NO: 4952B Page 4 of 4
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Date and Place 09 June 2009, Highett, Vic

Name, Title and Digital Signature:

A handwritten signature in black ink, appearing to read "D. Weeks".

(DAVID WEEKS)
(Technical Officer)

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A large, light blue, semi-transparent watermark of the CSIRO logo is centered on the page. It consists of the same stylized map of Australia and the word "CSIRO" in a large, bold, sans-serif font.