



## Industrial Research Services

Manuf. & Materials Technology, 14 Julius Ave (Riverside Corp. Park), North Ryde, NSW, 2113, Australia  
Telephone: 61 2 9490 5614 Facsimile: 61 2 9490 5777 Email: tiles@csiro.au Web: <http://www.cmse.csiro.au>

Registered Testing Authority - CSIRO

3 September 2009

Our Ref. ES13 / 1827 03/0212

### TEST REPORT No. 5024-1

Requested by: Spirit Marble & Tile Care  
on (date): 13 August 2009  
Manufacturer: Spirit Marble & Tile Care  
Product Desc.: 300 x 300 mm Honed Limestone  
sealed with Spirit Water-based Premium Seal (2 Coats)

Sampling details:  
Where: Delivered  
Date: 14 August 2009  
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:

CSIRO BEST-13:1998 Determination of Stain Resistance of stone tiles: PASS

CSIRO

REPORT NO: 5024-1  
ISSUE DATE: 3 September 2009  
PRODUCER: Spirit Marble & Tile Care  
TILE DESC: 300 x 300 mm Honed Limestone  
sealed with Spirit Water-based Premium Seal (2 Coats)

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## DETERMINATION OF STAIN RESISTANCE OF STONE TILES

TEST CARRIED OUT IN ACCORDANCE WITH  
CSIRO BEST-13:1998

Test Date: 27 August 2009

RESULTS Location: CTS Laboratory

### Compulsory test reagents

### Cleaning Class (visible changes on the proper surface)

Green Staining Agent in light oil:	1	<i>Stains having tracing actions</i>
Iodine/alcohol solution, 13 g/l	2a	<i>Stains having chemical/oxidizing action</i>
Olive oil	1	<i>Stains having filming action</i>

- Ratings:
- 1 Stain removed with a damp cloth
  - 2a Stain removed with a damp cloth and neutral stone cleaning agent
  - 2b Stain removed with a rotating brush and neutral stone cleaning agent
  - 3a Stain removed with damp cloth and alkaline cleaning agent
  - 3b Stain removed with a rotating brush and alkaline cleaning agent
  - 4 Stain removed after blotting stain with acetone and a clean white cloth for no more than 3 minutes
  - 5 Stain removed after 24 hours immersion in acetone
  - 6 Stain not removed.

**Minimum Requirement: 3b (compulsory reagents only)**

### Comments:

The three staining agents were applied to the surface of the sealed tiles for 24 hours prior to testing. After cleaning with a damp cloth, the tiles were dried in an oven at 65°C.



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ISSUE DATE: 3 September 2009  
MANUFACTURER: Spirit Marble & Tile Care  
TILE DESC: 300 x 300 mm Honed Limestone  
sealed with Spirit Water-based Premium Seal (2 Coats)

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Date and Place 3 September 2009, North Ryde, NSW

Name, Title and Digital Signature:



**HUGH MCMULLEN**  
**Laboratory Manager**

Tel: 61 2 94905614  
Fax: 61 2 94905777  
Email: [Hugh.McMullen@csiro.au](mailto:Hugh.McMullen@csiro.au)

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

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PR:M030909-12:21:00



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Registered Testing Authority - CSIRO

3 September 2009

Our Ref. ES13 / 1827 03/0212

### TEST REPORT No. 5024-2

Requested by: Spirit Marble & Tile Care  
on (date): 13 August 2009  
Manufacturer: Spirit Marble & Tile Care  
Product Desc.: 300 x 300 mm Honed Limestone  
unsealed

Sampling details:  
Where: Delivered  
Date: 14 August 2009  
By whom: Courier  
How (methods): N/A

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#### SUMMARY OF TESTS PERFORMED:

CSIRO BEST-13:1998 Determination of Stain Resistance of stone tiles: FAIL

CSIRO

REPORT NO: 5024-2  
ISSUE DATE: 3 September 2009  
PRODUCER: Spirit Marble & Tile Care  
TILE DESC: 300 x 300 mm Honed Limestone  
unsealed

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## DETERMINATION OF STAIN RESISTANCE OF STONE TILES

TEST CARRIED OUT IN ACCORDANCE WITH  
CSIRO BEST-13:1998

Test Date: 27 August 2009

RESULTS Location: CTS Laboratory

### Compulsory test reagents

### Cleaning Class (visible changes on the proper surface)

Green Staining Agent in light oil:	<b>5</b>	<i>Stains having tracing actions</i>
Iodine/alcohol solution, 13 g/l	<b>6</b>	<i>Stains having chemical/oxidizing action</i>
Olive oil	<b>6</b>	<i>Stains having filming action</i>

- Ratings:
- 1 Stain removed with a damp cloth
  - 2a Stain removed with a damp cloth and neutral stone cleaning agent
  - 2b Stain removed with a rotating brush and neutral stone cleaning agent
  - 3a Stain removed with damp cloth and alkaline cleaning agent
  - 3b Stain removed with a rotating brush and alkaline cleaning agent
  - 4 Stain removed after blotting stain with acetone and a clean white cloth for no more than 3 minutes
  - 5 Stain removed after 24 hours immersion in acetone
  - 6 Stain not removed.

**Minimum Requirement: 3b (compulsory reagents only)**

### Comments:

The three staining agents were applied to the surface of the unsealed tiles for 24 hours prior to testing. After each cleaning procedure, the tiles were dried in an oven at 65°C.



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MANUFACTURER: Spirit Marble & Tile Care  
TILE DESC: 300 x 300 mm Honed Limestone  
unsealed

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Date and Place 3 September 2009, North Ryde, NSW

Name, Title and Digital Signature:



**HUGH MCMULLEN**  
**Laboratory Manager**

Tel: 61 2 94905614  
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Email: [Hugh.McMullen@csiro.au](mailto:Hugh.McMullen@csiro.au)

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