

FORAY LABORATORIES PTY. LTD.

2/27 Normanby Road
Clayton North, 3168
www.cetec-foray.com.au

Telephone: 03-9544-9111
Fax: 03-9544-9122
Email: info@cetec-foray.com.au

LABORATORY REPORT: 0704-06

Client: Dalsouple

1 SAMPLE IDENTIFICATION AND DESCRIPTION

Samples were tested as received on April 19th, 2007 and tested for wet pendulum and Oil-wet ramp tests per methods described.

Table 1: Sample Identification and Description

Sample Identification	Description
59478	Dalsouple: Unismooth-purple
59479	Dalsouple: Pastile Alpha (Dimpled)
59480	Dalsouple: Rainure (Ribbed)

Samples were analysed for Wet Pendulum test and Oil-Wet Ramp (Four S slider) as per method AS/NZS 4586:2004.

2 RESULTS:

Sample 59478, 59479, 59480 gave mean BPN for wet pendulum test as 13, 18 and 24 respectively as shown in Table 2. All the samples were classed as Z for pedestrian surface material as indicated in the Table 3. Sample 59480 being at the higher end of the specification. Under classification Z, the risk of slipping when wet is very high.

As shown in Table 4, the minimum angle observed by oil-wet ramp test for sample 59478 was significantly low and could not be classed. Sample 59479 and 59480 showed minimum angle to be 17° and 10.3° and were classed as R10 where as sample 59479 was at high end of the limit and sample 59480 at lower end of the specifications.

Under ramp R10, the classification guide for commercial and industrial areas include social facilities (toilets, washroom). And below this rating i.e. R9, specific locations recommended are entry foyer hotel, office, public buildings-dry, shopping center excluding food court, lift lobbies above external entry level, other separate shops inside shopping centers, hospitals and aged care facilities-dry areas, super market aisles except fresh food areas.

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Table 2: Test results for various samples tested.

Sample Identification	Wet Pendulum Test: Mean BPN	Oil-Wet Ramp Test: Minimum angle
59478	13	NA
59479	18	17.0°
59480	24	10.3°

Table 3: Classification of pedestrian surface materials according to the Wet Pendulum Test.

Class	Pendulum mean BPN: Four S rubber	Contribution of the floor surface to the risk of slipping when wet.
V	>54	Very low
W	45-54	Low
X	35-44	Moderate
Y	25-34	High
Z	<25	Very high

Table 4: Classification of pedestrian surface materials according to the Oil-Wet Ramp Test.

Classification	Angel (degrees)
R9	$\geq 6 < 10$
R10	$\geq 10 < 19$
R11	$\geq 19 < 27$
R12	$\geq 27 < 35$
R13	≥ 35

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3 PARAMETER UNITS

Name	Method	Units	Detection Limits	Precision
Wet Pendulum test	AS/NZS 4586:2004	Mean BPN*	NA	NA
Oil-Wet Ramp test	AS/NZS 4586:2004	Minimum angle	NA	NA


* British Pendulum Number.

4 PARAMETER METHODS

Name	References & Techniques
Wet Pendulum test	AS/NZS 4586:2004 in situ measurement of the frictional characteristics of existing pedestrian surfaces under wet conditions using Pendulum Friction Tester: Stanley (S/N: 9234, calibrated 13/6/05) and Rubber slider used: Four S
Oil –Wet Ramp test	AS/NZS 4586:2004 measurement of the frictional characteristics of pedestrian surfacing materials using a flat torsion-resistant platform.


Dr Lakshmi Yerramilli
PhD, BSc (Hons), MRACI
Consultant

April 30th, 2007


Dr. Vyt Garnys
PhD, BSc(Hons), AIMM, ARACI, ISIAQ
AIRAH, ACA, FMA
Managing Director and Principal Consultant

2/27 Normanby Road,
Clayton North, Victoria 3168,
Australia
www.cetec-foray.com.au



A.B.N. 54 007 032 331

Telephone: (03) 9544 9111
Facsimile: (03) 9544 9122
International: (+613)
Email: info@cetec-foray.com.au



Monday April 30th, 2007

Cetec Pty Ltd
2/27 Normanby Road
Notting Hill Victoria 3168

Please find attached our final report, details as per below.

Project Title : Measurement of Frictional Characteristics of Rubber Flooring
No. of Pages : 3
Our Reference : 0704-06
Your Reference :
Sample Retention : Return to client

Yours sincerely,

A handwritten signature in blue ink, appearing to read "R. Schiller".

Dr. Robert Schiller
PhD, BSc(Hons)
NACE, IMEA
Senior Consultant

A handwritten signature in black ink, appearing to read "Vyt Garnys".

Dr. Vyt Garnys
PhD, BSc(Hons), AIMM, ARACI, ISIAQ
AIRAH, ACA, FMA
Managing Director and Principal Consultant