

Customer: Mats Direct  
Unit 2  
Bolholt Industrial Park  
Walshaw Road  
Bury  
Lancashire  
BL8 1PY

Attention of: Chris Bleakley

# Technical Report

Subject: SATRA TM144 slip assessment  
Your ref: Concourse  
Our ref: FLO 0167717/0838/1/DS/SLM/Issue 1  
Date: 3<sup>rd</sup> October 2008

## Conditions of Issue:

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Report signed by: S L Morris  
Floorcoverings Technologist  
Floorcoverings Evaluation Centre  
On behalf of SATRA Technology Centre Ltd



## EVALUATION OF SLIP RESISTANCE TO ACCORDING TO SATRA TM 144

As requested by Mats Direct, we have conducted an assessment of the slip resistance of the rubber entrance mat submitted, as detailed below.

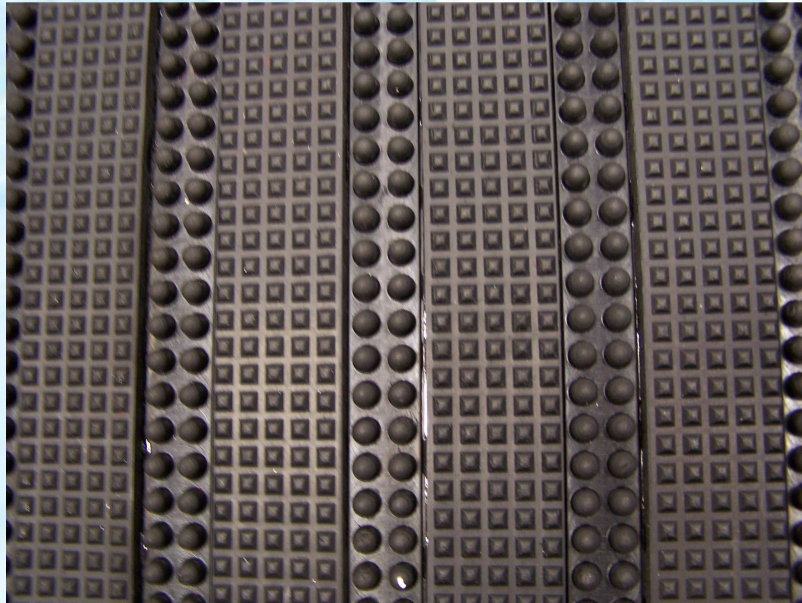
### SUMMARY

With regard to coefficient of friction in dry surface conditions the sample submitted referenced 'Concourse' demonstrates a low potential for slip.

When assessed under wet conditions the sample also demonstrates a low potential.

### SAMPLE SUBMITTED

References:	Concourse
Description:	Profiled rubber entrance matting system
Colour:	Black
Appearance:	



Intended application:	Contract flooring
Date received:	15 <sup>th</sup> September 2008
Conditioning commenced:	15 <sup>th</sup> September 2008
Testing commenced:	17 <sup>th</sup> September 2008
Testing completed:	17 <sup>th</sup> September 2008
Testing conducted by:	Dave Smith

### TESTS CARRIED OUT

- SATRA TM144: 1999 Dynamic coefficient of Friction (Slip resistance) of footwear and floorings.



## RESULTS

### SATRA TM 144: 1999 – Slip resistance test on floor coverings

Sample	Condition	Direction of test			Average
		A	B	C	
Concourse	Dry	0.97	0.85	0.97	<b>0.93</b>
	Wet	0.78	0.66	0.69	<b>0.74</b>

### Direction of Test



## COMMENTS

The method of test is intended to assess the potential of slipping for people walking on a flooring material. It determines the coefficient of friction (CoF) between footwear outsoles and flooring surfaces under conditions simulating those experienced at the most critical parts of a typical walking step. In this instance a Four S Rubber slider of diameter 76mm set at a 5° contact angle, is used to simulate a male shoe heel at the critical angle to the floor.

SATRA recommends that a floor covering material must achieve a minimum coefficient of friction of 0.40 in both wet and dry conditions to demonstrate a low risk in terms of slipping under the same conditions.

The sample submitted under the reference ‘Concourse’ has satisfied these requirements when tested under dry surface conditions achieving a coefficient of friction of 0.93, representing a low potential for slip.

When assessed under wet conditions the coefficient of friction is 0.74. The risk should therefore be classified as a low potential of slip under wet conditions.

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