

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

Attention of: Chris

Technical Report

Subject: SATRA TM144 slip assessment
Your ref: Matrix
Our ref: FLO 0167717/0838/3/DS/SLM/Issue 1
Date: 3rd 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 'Matrix' demonstrates a low potential for slip.

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

SAMPLE SUBMITTED

References:	Matrix
Description:	Profiled rubber entrance matting system with textile inserts
Colour (Rubber):	Black
Colour (textile):	Red
Appearance:	



Intended application:	Contract flooring
Date received:	15 th September 2008
Conditioning commenced:	15 th September 2008
Testing commenced:	17 th September 2008
Testing completed:	17 th 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	
Matrix	Dry	0.81	0.79	0.80	0.80
	Wet	0.82	0.78	0.83	0.81

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 ‘Matrix’ has satisfied these requirements when tested under dry surface conditions achieving a coefficient of friction of 0.80, representing a low potential for slip.

When assessed under wet conditions the coefficient of friction is 0.81. The risk should therefore be classified as a low potential of slip under wet conditions.

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