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Le Mark Self Adhesives Ltd Customer details:

Unit 1 Houghton Hill Industries

Sawtry Way Houghton

Cambridgeshire

PE28 2DH

SATRA

FLO0240882/1549/5

reference:

Your reference: 000823

Date of report:

16 December 2015

Samples

4 December 2015

received:

For the attention of: Keelan Cochrane

Date(s) work carried out:

4 December 2015 -10 December 2015

TECHNICAL REPORT

Subject: Testing of one sample described by the customer as 'Two Tone' to

BS EN ISO 11925-2:2010

Conditions of Issue:

This report may be forwarded to other parties provided that it is not changed in any way. It must not be published, for example by including it in advertisements, without the prior, written permission of SATRA.

Results given in this report refer only to the samples submitted for analysis and tested by SATRA. Comments are for guidance only.

Tests marked ≠ fall outside the UKAS Accreditation Schedule for SATRA. All interpretations of results of such tests and the comments based upon them are outside the scope of UKAS accreditation and are based on current SATRA knowledge.

A satisfactory test report in no way implies that the product tested is approved by SATRA and no warranty is given as to the performance of the product tested. SATRA shall not be liable for any subsequent loss or damage incurred by the client as a result of information supplied in the report.

Please note uncertainty of measurement has not been applied to the results in this report. SATRA uncertainty of measurement values are available on request.

Report signed by: Philip Weal Position: Senior Technician

Furniture and Floor Coverings Department:

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TECHNOLOGY

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Test Details

Purpose of testTo determine the performance of specimens of a product when they are

subjected to the conditions of the test specified in

BS EN ISO 11925-2:2010 Reaction to Fire tests – Ignitability Of Building Products Subjected to Direct Impingement of Flame- Part 2: Single Flame

Source Test.

The test was performed in accordance with the procedure specified in BS EN ISO 11925-2:2010 Reaction to Fire Tests – Ignitability of Building Products subjected to direct impingement of flame – Part 2: Single Flame Source Test, and this report should be read in conjunction with that

standard.

Scope of test BS EN ISO 11925-2:2010 specifies a method of test for determining the

ignitability of building products by direct small flame impingement under

zero impressed irradiance using specimens tested in a vertical

orientation.

Instruction to test The test was conducted on the 10 December 2015 at the request of

Le Mark Self Adhesives Ltd, the sponsor of the test.

Provision of test

specimen

The specimens were supplied by Le Mark Self Adhesives Ltd, the sponsor of the test. SATRA Technology Centre Ltd was not involved in

any selection or sampling procedure.

Conditioning of specimens

The specimens were received on the 4 December 2015.

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Prior to testing the specimens were conditioned either until constant mass was achieved or conditioned for a fixed period of time as defined in BS EN 13238:2010 - Conditioning Procedures and General Rules for

selection of substrates.

Substrate Fibre cement board supplied by Clarkes of Walsham Ltd.

Flame application

time

The flame was applied for 15 seconds.

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Description of Test Specimens

The description of the specimen given below has been prepared from information provided by the sponsor of the test. All values quoted are nominal, unless tolerances are given.

		- 6 61	DANCE EL CODINO				
		of flooring system	DANCE FLOORING				
	oduct reference o	of flooring system	H.S. CODE 39181090				
	olour reference		BLACK / WHITE				
	ame of Manufactu		RMG POLYVINYL INDIA LIMITED				
O١	verall weight per υ	ınit area	1600 GSM				
O١	verall Thickness		1.20 MM				
	Configuration	Product Reference	N/A				
		Generic Type	N/A				
	Layer 1	Name of Manufacturer	N/A				
	(Silicon /	Application Rate	N/A				
	Quartz	Application method	N/A				
	Particulate)	Specific gravity	N/A				
- (C1 61	Colour reference	N/A				
	7 - 4/2.	Flame Retardant Details	N/A				
	072	Product Reference	DANCE FLOORING				
~	EN NB	Generic Type	PVC CUSHION FLOORING WITH GLASS				
	ENIN	Name of Manufacturer	RMG POLYVINYL INDIA LIMITED				
1.	-CUV-~	% Composition	30%				
1	Layer 2	Weight per unit area	325 GSM				
0_	(Wear Layer)	Thickness	0.25 MM				
מ		Trade name of flame retardant	OF THE SERVICE OF				
a a	Win SOL	Generic form of flame retardant	(NO SPECIAL ADDITIVES ADDED)				
0	OF	Amount of flame retardant	2 - CON - ON - ON - O				
Floor covering	15 CK	Product Reference	N/A				
0	BE	Generic Type	N/A				
4	CNIL	Name of Manufacturer	N/A				
_ <	Layer 3	% Composition	N/A				
	(Printed	Weight per unit area	N/A				
	film)	Thickness	N/A				
		Flame Retardant details	N/A				
	-CK	Generic form of flame retardant					
	0	Amount of flame retardant	N/A				
015	5 -01	Product Reference	DANCE FLOORING				
	Glass fibre	Generic Type	GLASS FIBER TISSUE IMPREGNATED WITH				
		Name of Manufacturer	GFT IMPORTED BY RMG POLYVINYL INDIA				
	sheet	Thickness	0.30 MM				
M.	incorporated	Weight per unit area	325 GRAM PER SQ. MTR.				
	in backing	Flame Retardant details	DEG STAWLT ETCOG. WITH.				
0	layer	Generic form of flame retardant	(NO SPECIAL ADDITIVES ADDED)				
	1BL	Amount of flame retardant	(NO OI LOIAL ADDITIVES ADDED)				
		Amount of hame retainant	LOKI OK ALD				

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DANCE FLOORING			
BACKING LAYER BY COATING PROCESS			
RMG POLYVINYL INDIA LIMITED			
0.60			
900 GSM			
DED)			
'Cembrit HD'			
Fibre cement board			
Clarkes of Walsham Ltd			
8 ± 2mm			
$1800 \pm 200 \text{ kg/m}^3$			
FLOORING IS PRODUCED ON STORK SPREAD COATING LINE			

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SATRA

TECHNICAL REPORT



Test Results

Number of specimens tested

Six specimens were tested which were subjected to surface exposure to flame with the detailed face exposed. Three specimens were tested in direction of manufacture with three specimens tested in a direction perpendicular to that of manufacture.

Applicability of test result

The test results relate only to the behaviour of the test specimen of the product under the particular conditions of test; they are not intended to be the sole criterion for assessing the potential smoke hazard of the product in use.

The test results relate only to the specimens of the product in the form in which they were tested. Small differences in the composition or thickness of the product may significantly affect the performance during the test and may therefore invalidate the test results. Care should be taken to ensure that any product which is supplied or used is fully represented by the specimen's which were tested.

The test results for the individual specimen, together with observations made during the test and comments on any difficulties encountered during the test are given in Table 1.

Validity

The specification and interpretation of fire test, EXAP and classification methods is the subject of ongoing development and refinement. Changes in associated legislation may also occur. For these reasons it is recommended that the relevance of fire reports, EXAP report and classification reports over 5 years old should be considered by the user. The notified body that issued the report will be able to offer, on behalf of the legal owner, a review of the procedures adopted for a particular test to ensure that they are consistent with current practices, and if required may endorse the report.

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Table 1 Test flame application position – Surface of sample referenced as 'Two Tone' – Direction of manufacture

Specimen	Ignition	Time from	Extent of	Flaming	Glowing	Extent of	
No.	YES/NO	start of test	flame	debris		Damaged Area	
		for flame to	spread			(mm)	
		reach	(mm)				
		150mm					
		(seconds)					
						Height	Width
1	Yes	N/A	81	No	No	205	21
2	Yes	N/A	72	No	No	206	20
3	Yes	N/A	90	No	No	205	13

Test flame application position – Surface of sample referenced as as 'Two Tone' – Perpendicular to direction of manufacture

Specimen	Ignition	Time from	Extent of	Flaming	Glowing	Extent of	. 0
No.	YES/NO	start of test for flame to reach 150mm (seconds)	flame spread (mm)	debris	EDE 2	Damaged Area (mm)	
5 10	in as	CEI	1. UE		D 1	Height	Width
130	Yes	N/A	63	No	No	200	12
2	Yes	N/A	52	No	No	200	17
3	Yes	N/A	55	No	No	201	18

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TERMS AND CONDITIONS OF BUSINESS

GENERAL

Work done or services undertaken are subject to the terms and conditions detailed below and all other conditions, warranties and representations, expressed or implied are hereby excluded.

PRICES

Prices are based on current material and production costs, exchange rates, duty and freight and are subject to change without notice.

3. DELIVERY ESTIMATES

Delivery estimates are made in good faith and date from receipt of a written order and full information to enable us to proceed. While SATRA or its subsidiaries (hereafter referred to as "SATRA") make every effort to fulfil them, such estimates are subject to unforeseen events and if not maintained, cannot give rise to any claim. Offers "ex stock" are subject to prior sale.

4. CANCELLATION AND RETURNS

Cancellation of orders for goods, services, training or consultancy is only acceptable by prior agreement of SATRA and a charge will normally be made.

CLAIMS

Claims for errors, shortages etc should be notified within 10 days of date of receipt. In the event of goods damaged in transit, packing materials should be retained for examination; otherwise no liability can be accepted.

6. PAYMENT TERMS

Payment terms are net 21 days from date of invoice. Failure to comply with the terms of payment may result in delayed delivery of goods and services and a review of the Customer's credit account. Should the customer become subject to an administration order, or becomes bankrupt or goes into liquidation, SATRA has a right to cancel any contract and discontinue any work. SATRA reserves the right to adjust US Dollar and Euro sales price where customer exceeds credit terms and where the exchange rate has moved more than 10% since invoicing.

7. RETENTION OF TITLE

All goods remain the property of SATRA until paid in full. Under no circumstances will a customer's purchase order override SATRA's Retention of Title clause. In the case of software, the ownership of the software remains with SATRA. Payment of invoices in full will entitle the customer to use the software under licence until (a) they cease to be a member of SATRA or (b) they cease trading. In both instances, the licence shall then revert to SATRA.

8. GUARANTEE

All goods manufactured by SATRA are guaranteed both as regards material and workmanship. Any part returned carriage paid, within twelve months from date of supply and found defective, will be repaired or replaced at SATRA's option free of charge. SATRA admits no liability for loss, damage or delay consequent on any defect in any goods supplied by SATRA.

9. TEST REPORTS

Results given in test reports refer only to samples submitted for analysis and tested by SATRA. A satisfactory test report in no way implies that the product tested is approved by SATRA and no warranty is given as to the performance of the product tested. SATRA shall not be liable for any subsequent loss or damage incurred by the Customer as a result of information supplied in a test report.

TEST SAMPLES

Unless otherwise agreed in advance, test samples will be disposed of 6 weeks after the date of the final report. If required, samples can be returned at the Customer's expense.

11. RESPONSIBILITY

Every effort is made to ensure accuracy in description, drawings and other information in correspondence, catalogues, etc but no warranty is given in this respect and SATRA shall not be liable for any error therein. SATRA carries out all tests and/or advises only on the basis that the same are carried out, made or given without any responsibility whether for negligence or otherwise. SATRA and its servants or agents will not be liable for any damage or loss direct or indirect of whatsoever kind, whether or not the same results directly or indirectly from negligence on the part of SATRA or its servants or agents.

12. CONFIDENTIALITY

Unless specifically excluded in the terms of an individual contract between SATRA and its Customer, the following shall apply to all reports, advice, drawings, photographs, specifications or data:

- The above shall not be disclosed to third parties or used in litigation without the consent of SATRA.
- ii. Where SATRA has given consent to disclosure, the Customer shall draw the attention of the third party to these terms of business and the basis on which SATRA undertakes test, reporting and advising. The Customer shall indemnify SATRA for any failure to do so.
- iii. The above items are submitted to the Customer as confidential documents. Confidentiality shall continue to apply after completion of the business, but shall cease to apply to information or knowledge which may come into the public domain.

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13. CONSTRUCTION AND ARBITRATION

The laws of England shall govern all contracts and the parties submit to exclusive jurisdiction of the courts of England, unless otherwise agreed.

Issue Date: 1st October 2009

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