



## Heskins PERMAFIX EXTRA data sheet and tests

### H3402NUC EXTRA COARSE SAFETY-GRIP

Subject	Result	Test method
Back carrier	2mm PVC	Caliper method
Type of adhesive	Solvent acrylic	N/A
Total thickness	2.12mm	Caliper method
Mineral type	Aluminium Oxide	N/A
Adhesion to steel (g/25.4mm <sup>2</sup> )	1500↑	PSTC-4
Temperature range	-30°C to +70°C	See notes below
Maximum size of production roll	1168mm x 50m	N/A
Resistance to water (months)	10	PSTC-35
Resistance to chemicals (months)	8	PSTC-35
Resistance to motor oil	Excellent	PSTC-35
Life (months)	12 to 24	PSTC-9

*The independent test laboratory at Adhesive Technical Services Ltd performed the temperature test, England (test results available)*

Coefficient of friction data Dry surface test result	Wet surface test result
<b>H3404</b>	
102 TRL	71 TRL

*The above tests were conducted in accordance with Pendulum, the tests were conducted at a recognised independent friction testing laboratory, and copy certificates are available on request. Pendulum is a dynamic test, for static tests, we also have results ASTM C 1028-96.*

LRV Test Results	Av. LRV	Range
<b>Material/Colour</b>		
H3404Y (Yellow)	39.67	2.12
H3404N (Black)	0	0

The test procedure follows Lucideon In House Test Method WW22, and complies with the requirements of BS.8493:2008+A1:2010.  
All the above data is for reference only.

### Comparison data

Industry standards	3M GP 610		Heskins H/G X-Coarse
<b>Applied thickness MIL D-1795 I</b>	0.76mm		1.74mm
<b>Flammability – tests performed by Civil Aviations Authority testing house; Laboratory Testing Services Ltd in Otley, UK according to BS5438:1976 Test 2 and BS5867:1980 Part 2</b>	3 acceptances Test certificate 20151/3		4 acceptances Test certificate 20151/1
<b>Dynamic coefficient of friction (slip resistance) MIL D-1795 I E, rubber test vehicle <i>High figures indicate higher slip performance</i></b>	<b>Dry</b>	1.04	1.33
	<b>Wet</b>	1.02	1.21
<b>DIN 51130 (ZH1/571), German slip resistance test <i>High figures indicate higher slip performance</i></b>	R13		R13

Industry standards	Nitto-Denko AS-117	Heskins H/G X-Coarse
<b>Adhesive strength Heskins data from test result taken 14/7/2006 by Adhesive Technical Services Ltd, Purfleet, UK, conducted according to AFERA specification <i>Higher figures indicate higher adhesive performance</i></b>	19.0	33.0

## PHYSICAL TESTING ANALYSIS REPORT

**Description:** Displacement Testing

**Test Method:** DIN 51130

**Lucideon Reference:** UK211711-11884

**Client:** Heskins Ltd  
Churchill Road Industrial Estate  
Brinscall  
Chorley  
Lancashire  
PR6 8RQ

**For the Attention of:** Mr. Larry Longton

**Date Logged:** 20-Apr-2021

**Date of Tests:** 22-Apr-2021 to 22-Apr-2021

**Report Date:** 10-Jun-2021

**Purchase Order No.:** PO 12866

The sample was deviating and as a result, the test result(s) may be invalid.

Please find attached the results for the sample(s) recently submitted for analysis.



**Mr Simon Hall**  
**Manager**

Lucideon Reference: UK211711-11884  
Customer Reference: H3402NUC X-Coarse  
Description: H3402NUC X-Coarse



**DISPLACEMENT TESTING**  
**DIN 51130-6**

**1 TEST SPECIMENS**

One 100 mm x 100 mm piece of resilient flooring.

**2 TEST**

The surface volume displacement value was determined using DIN 51130-6 for the flooring piece.

**3 RESULTS**

Sample	Paste Volume cm <sup>3</sup> /dm <sup>2</sup>
1	6.5

Surface Volume Displacement Value 6.5 cm<sup>3</sup>/dm<sup>2</sup>.

Class of displacement space: V 6.

**END OF TEST REPORT**

**SAFETY DATA SHEET**

Creation date: 18/5/2007

**1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY**

Product name	H3402HG H/G X-Coarse Safety-Grip
Supplier	Heskins Ltd Churchill Road Industrial Estate Brinscall Chorley, PR6 8RQ UK
Telephone	+44-(0)1254-832266
Fax	+44-(0)1254-832476
Email	mail@heskins.com

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

Hazardous substances	None
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The product consists of a siliconised release paper (discarded after application) lining a PVC tape comprising aluminium oxide granules and with an acrylic adhesive.

**3. HAZARD IDENTIFICATION**

This product does not present any particular hazard provided it is handled in accordance with good industrial hygiene and safety practise and under normal conditions of use. Following our present state of knowledge this product is not classified as a hazardous substance.

**4. FIRST AID MEASURES**

Inhalation	Not applicable under normal conditions of use
Skin contact	Not specifically applicable. Product will adhere temporarily to skin and may cause slight reddening on removal as per a self-adhesive plaster. Discontinue use if an allergic reaction occurs.
Eye contact	Not specifically applicable
Ingestion	Not specifically applicable

**5. FIRE FIGHTING MEASURES**

Suitable extinguishing media	Every media is appropriate
Unsuitable extinguishing media	Not known
Special exposure hazards	Combustible material, which may melt on heating. Harmful/toxic vapours such as carbon monoxide may be evolved
Protection of fire fighters	Self contained breathing apparatus

**6. ACCIDENTAL RELEASE MATERIALS**

**SAFETY DATA SHEET**

Creation date: 18/5/2007

Personal Protection	Not applicable under normal conditions of use
Environmental Protection	This product does not present any particular risk to the environment
Methods of cleaning up	Not applicable under normal conditions of use

**7. HANDLING AND STORAGE**

Handling	Does not require any specific handling procedure
Storage	Does not require any specific technical measures. For longevity of product it is recommended that it is stored in closed cartons away from direct sources of heat and light.
Packing	Product may come packed in a variety of recyclable or reusable packaging

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Technical measures	Does not require any particular measures provided it is in accordance with good hygiene and safety practise
Personal protection	Not specifically applicable

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	
- Physical state	Solid
- Form	Rough material with paper backing liner
- Colour	Release liner is white; honey or brown, anti slip surface is the choice of the customer in colour
Odour	Faint
PH	Not applicable
Boiling point	Not applicable
Flash point	Not applicable
Flammability	Not applicable
Explosive properties	Not applicable
Oxidising properties	Not applicable
Vapour pressure	Not applicable
Relative Density	1.0
Solubility	
- Water	Not soluble
- Organic solvent	Adhesive is partially soluble in common organic solvent

**10. STABILITY AND REACTIVITY**

Conditions to avoid	This product is stable at room temperature and in normal handling conditions
Hazardous decomposition	
Products	On combustion or thermal decomposition toxic gases may be released as oxides of carbon (CO & CO <sub>2</sub> )





**SAFETY DATA SHEET**

Creation date: 18/5/2007

**11. TOXICOLGICAL INFORMATION**

Local effects	Not applicable given the products physical state
Information general	Based on our experience and according to our knowledge of this product does not have any toxic effect under normal handling procedures

**12. ECOLOGICAL INFORMATION**

Persistence/Degradability	This product persists in the soil
Destination of the product	As a very small percentage of a finished product this cannot be determined. Unused product is typically land filled/incinerated where appropriate.
Possible impact/effect	Not dispersible. This product should not pose any specific problem to the environment

**13. DISPOSAL CONSIDERATIONS**

Waste from residues	Recycle the product wherever possible. For non-recycled product dispose of in accordance with local regulations. It can be disposed of as a non hazardous industrial waste, or, incinerated at a licensed site
Waste from packaging	Under normal usage/storage conditions contamination of packaging is not applicable. Depending on local possibilities either recycle, reuse or incinerate the cardboard and plastic packaging.

NOTE: the user's attention is drawn to the possible existence of local regulations concerning disposal

**14. TRANSPORT INFORMATION**

To the best of our knowledge at the time of creation of this document the product is not subject to any national/international regulations for transport by rail/sea/air.

**15. REGULATION INFORMATION**

Labelling	No mandatory labelling is required. Product is not classified as dangerous/hazardous. It is recommended that the customer refer to all the applicable and relevant local/national/international regulations, provisions and legislation.
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**16. OTHER INFORMATION**

For specific application such as medicine, surgery, and the food industry the manufacturer (Heskin's) should be contacted for further information.

The information given in this safety data sheet is based on our knowledge of the product at the time of publication and is given in good faith. The attention is drawn to the possible risks incurred by using the



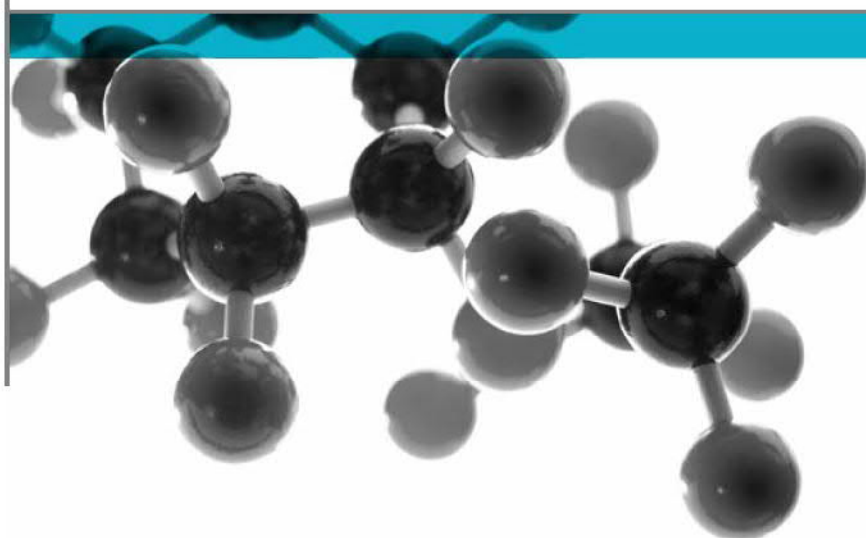
**SAFETY DATA SHEET**

Creation date: 18/5/2007

product for any other purpose than that for which it was intended. It is the sole responsibility of the user to take all the precautions in handling this product. We cannot guarantee that the risks referred to above are the only risks present. The final choice of application is thus the sole responsibility of the user.



# BS EN ISO 9239-1: 2010



## Fire Tests For Determination Of The Burning Behaviour of Floorings Part 1: Determination Of The Burning Behaviour Using A Radiant Heat Source

A Report To: Heskins Ltd

Document Reference: 436303

Date: 21<sup>st</sup> January 2021

Issue No.: 1

Page 1



## Executive Summary

**Objective** To determine the performance of the following product when tested in accordance with BS EN ISO 9239-1: 2010


Generic Description	Product reference	Thickness	Weight per unit area or density
Non-slip safety-grip self adhesive flooring adhered to fibre cement board	"Safety-Grip"	8.63mm*	15.22kg/m <sup>2</sup> *
<b>Individual components used to manufacture composite:</b>			
Top coat	"101058"	0.2mm	60g/m <sup>2</sup>
Film	"Safety-Grip"	0.7mm	660g/m <sup>2</sup>
Adhesive	"Standard"	160micron	Unable to provide
Substrate	"NT D4 604"	8mm	1800k/m <sup>3</sup>
*determined by Warringtonfire			
Please see page 6 of this test report for the full description of the product tested			

**Test Sponsor** Heskins Ltd, Churchill Road Industrial Estate, Brinscall, Chorley, PR6 8RQ

**Test Results:** **Orientation of test specimens : No direction**  
**Average critical radiant flux** = **≥ 11.0 kW/m<sup>2</sup>**  
**Average smoke development** = **5.26 % min**

**Date of Test** 13<sup>th</sup> January 2021

## Signatories

  
Responsible Officer  
H. Harper \*  
Testing Officer

  
Authorised  
C. Jacques \*  
Senior Technical Officer

\* For and on behalf of Warringtonfire.

Report Issued: 21<sup>st</sup> January 2021

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## Test Details

### Purpose of test

To determine the performance of specimens of a product when they are subjected to the conditions of the test procedure defined in the document BS EN ISO 9239-1:2010 - Reaction To Fire Tests For Floorings – Part 1: Determination Of The Burning Behaviour Using A Radiant Heat Source.

The test was performed in accordance with the procedure defined in BS EN ISO 9239-1:2010 and this report should be read in conjunction with that Standard.

### Scope of test

BS EN ISO 9239-1:2010 describes a European test procedure for assessing the burning behaviour, spread of flame and smoke development of horizontally mounted floorcovering systems exposed to a radiant heat gradient in a test chamber, when ignited with a pilot flame.

The measurements provide a basis for estimating one aspect of fire exposure behaviour of floor covering systems. The imposed radiant flux simulates the thermal radiation levels likely to impinge on the floors of a building whose upper surfaces are heated by flames or hot gases or both, from a fire in an adjacent room or compartment.

This method is applicable to all types of floorcoverings such as textile carpet, cork, wood, rubber and plastic coverings as well as coatings. Results obtained by this method reflect the performance of the total floor covering system as tested. Modifications of the backing, bonding to a substrate, underlay, or other changes to the system may affect the test results.

The test is intended for regulatory purposes, specification acceptance, design purposes, classification, or development and research.

### Fire test study group/EGOLF

Certain aspects of some fire test specifications are open to different interpretations. The Fire Test Study Group and EGOLF have identified a number of such areas and has agreed Resolutions which define common agreement of interpretations between fire test laboratories which are members of the Groups. Where such Resolutions are applicable to this test they have been followed.

### Instruction to test

The test was conducted on the 13<sup>th</sup> January 2021 at the request of Heskins Ltd, the sponsor of the test.

### Provision of test specimens

The specimens were supplied by the sponsor of the test. **Warringtonfire** was not involved in any selection or sampling procedure. The results stated in this report apply to the samples as received.

### Conditioning of specimens

The specimens were received on the 4<sup>th</sup> December 2020.

Prior to test the specimens were conditioned to constant mass at a temperature of  $23 \pm 2^\circ\text{C}$  and a relative humidity of  $50 \pm 5\%$ .

<b>Number of specimens tested</b>	The specimens did not have a directional quality to them therefore a total of three specimens were tested.
<b>Exposed face</b>	The decorative face of the specimens was exposed to the radiant heat of the test when the specimens were mounted in the test position.
<b>Substrate</b>	The specimens were tested applied to a nominally 8mm thick fibre cement board substrate (as specified in EN 13238: 2010).

## Description of Test Specimens

The description of the system given below has been prepared from information provided by the sponsor of the test. This information has not been independently verified by Warringtonfire. All values quoted are nominal, unless tolerances are given.

General description		Non-slip safety-grip self adhesive flooring adhered to fibre cement board
Product reference of overall composite		"Safety-Grip"
Name of manufacturer of overall composite		Heskins Ltd
Thickness of overall composite		8.63mm (determined by Warringtonfire)
Weight per unit area of overall composite		15.22kg/m <sup>2</sup> (determined by Warringtonfire)
Top coat	Generic type	Aluminium oxide
	Product reference	"101058"
	Detailed description / composition details	See Note 1 Below
	Name of manufacturer	Merck Group
	Thickness	0.2mm
	Weight per unit area	60g/m <sup>2</sup>
	Colour details	See Note 1 Below
	Flame retardant details	See Note 1 Below
Film	Generic type	Polyvinyl chloride film
	Product reference	"Safety-Grip"
	Detailed description / composition details	See Note 1 Below
	Name of manufacturer	Heskins Ltd
	Thickness	0.7mm
	Density / weight per unit area	660g/m <sup>2</sup>
	Colour details	See Note 1 Below
	Flame retardant details	See Note 1 Below
Adhesive	Generic type	Modified solvent acrylic
	Product reference	"Standard"
	Name of manufacturer	Heskins Ltd
	Application thickness / rate	160micron
	Specific gravity	See Note 1 Below
	Colour details	See Note 1 Below
	Application method	See Note 1 Below
	Flame retardant details	See Note 1 Below
Substrate	Product reference	"NT D4 604"
	Generic type	Fibre cement board
	Name of manufacturer	Scheerders van de Kerkhove (SVK)
	Thickness	8mm
	Density	1800kg/m <sup>3</sup>
Brief description of manufacturing process		See Note 1 Below

**Note 1: The sponsor was unable to provide this information.**



## Test Results

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The test results relate to the behaviour of the test specimens of a product under the particular conditions of test; they are not intended to be the sole criterion for assessing the potential fire 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 specimens which were tested.

The distance between the flame front and the zero point at 10 minute intervals together with the observations recorded during the tests in respect of each specimen tested, are given in Table 1.

Average maximum flame front distance	=	8cm
Average critical radiant flux	=	$\geq 11.0\text{kW/m}^2$
Average smoke development	=	5.26% min

## Validity

The specification and interpretation of fire test methods are the subject of ongoing development and refinement. Changes in associated legislation may also occur. For these reasons it is recommended that the relevance of test reports over five years old should be considered by the user. The laboratory 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 test report.

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Table 1

SPECIMEN NO.	1	2	3
DISTANCE (cm)	TIME TO TRAVEL TO INDICATED DISTANCE (seconds)		
5	204	189	216
10			
15			
20			
25			
30			
35			
40			
45			
50			
55			
60			
65			
70			
75			
80			
85			
90			
95			
100			
Flame extinguishment (seconds)	720	720	720
Maximum flame front distance (cm)	8	8	7
Critical radiant flux (kW/m <sup>2</sup> )	≥ 11.0	≥ 11.0	≥ 11.0
Smoke Development (%.min)	6.90	5.06	3.80

Specimen Number	1	2	3
Flame front distance at 10 min (cm)	≤ 5	≤ 5	≤ 5
Flame front distance at 20 min (cm)	-	-	-
Flame front distance at 30 min (cm)	-	-	-
Radiant flux at 10 minutes, Rf <sub>10</sub> (kW/m <sup>2</sup> )	≥ 11.0	≥ 11.0	≥ 11.0
Radiant flux at 20 minutes, Rf <sub>20</sub> (kW/m <sup>2</sup> )	-	-	-
Radiant flux at 30 minutes, Rf <sub>30</sub> (kW/m <sup>2</sup> )	-	-	-

**Observations of the burning characteristics of the specimens during the testing exposure**

In the case of each specimen blistering was observed across the face of the specimen which was observed from the start of the test to a maximum distance of approximately 50cm.

## Revision History

Issue No :	Re-issue Date :
Revised By:	Approved By:
Reason for Revision:	

Issue No :	Re-issue Date :
Revised By:	Approved By:
Reason for Revision:	

# PHYSICAL TESTING REPORT

# LUCIDEON

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0013

**Heskins Ltd**  
Churchill Road Industrial Estate  
Brinscall  
Chorley  
Lancashire  
PR6 8RQ

FAO: Mr. Larry Longton

**Report of Tests on:** H3402NUC X-Coarse safety-grip

**Your Reference:** H3402NUC

**Lucideon Reference:** (18139)-1382

**Date Reported:** 18-Jan-2018

**Order Number:** 10511

**Date Logged:** 09-Jan-2018

**Date(s) of Test(s):** 10-Jan-2018 to 10-Jan-2018

## Inclined Platform Test for Slip Resistance In Shod Conditions

DIN 51130:2010

No.	Operator 1 - Angle of Inclination	Operator 2 - Angle of Inclination
	°	°
1	>40	>40
2	>40	>40
3	>40	>40

Description of Test Specimen(s): 1m x 0.5m safety grip sheet

Average of Six Shod Results (Corrected): >40.0 °

Category: R13

The critical angle at which a test person reaches the limit of safe walking on an inclined plane is used as a measure of slip resistance.

Opinions and interpretations expressed herein are outside the scope of UKAS Accreditation.

**End of Test Report**

Miss Zoe Kinally  
Manager

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# **ADHESIVE TECHNICAL SERVICES LTD**

*TECHNICAL SUPPORT FOR ADHESIVES, TAPES AND LABELS - (est. 1990)*

## **Testing and Consultancy Report**

**On behalf of Heskins**

### **Testing of Safety Grip Tapes**

**Esther Hetterley**

**March 2018**

ADHESIVE TECHNICAL SERVICES LTD  
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## **INTRODUCTION**

Thirteen safety grip tapes were sent in by Heskings for evaluation.

## **SAMPLES SUPPLIED FOR TESTING**

<b>Tape</b>	<b>Width</b>
H3401	50mm
H3401	100mm
H3401	50mm
H3401	25mm
H3402NUC	50mm
H3402NUC	25mm
H3453	50mm
H3453	20mm
H3403X	50mm
H3403X	25mm
H3406	50mm
H6901	50mm
H6602	50mm

## **TESTS UNDERTAKEN**

FTM1 - 180° Peel Adhesion @ 23°C PSTC

Tensile strength



## ADHESIVE TECHNICAL SERVICES LTD

### TEST METHODS USED

#### Peel Adhesion at +23°C - FINAT FTM1

Instrument	: ChemInstruments AR-2000 Adhesion Release Tester
Test Surface	: Mirror finished steel (PSTC Specification)
Conditioning	: Minimum 24 hours at 23±1°C, 50±5%
Application	: Rolled twice in each direction at 600mm/minute with 2Kg roller, using ChemInstruments RD-3000 Rolldown Machine
Peel Rate	: 300mm/min
Peel Angle	: 180°
Dwell	: 24 hour
Temperature	: 23±1°C
Humidity	: 50±5%
No. of Tests	: 5

#### Tensile Strength

Instrument	: Lloyd, 500N load cell
Sample length	: 100mm between grips
Test Rate	: 300 mm / minute
Temperature	: 23±1°C
Humidity	: 50±5%
No. Of Tests	: 5

## ADHESIVE TECHNICAL SERVICES LTD

### RESULTS

Tape	Width mm	180° Peel 24 hour dwell PSTC @ 300mm/min		Tensile strength @ 300mm/min	
		N/25mm	N/tape width	N/25mm	N/tape width
H3401	150	21.4 AF	128 AF	85.2	511
H3401	100	25.9 AF	103 AF	78.2	313
H3401	50	26.4 AF	53 AF	67.9	136
H3401	25	23.5 AF	23.5 AF	68.0	68
H3402NUC	50	26.6 AF	107 AF	91.8	184
H3402NUC	25	17.9 AF	18 AF	76.4	76
H3453	50	18.7 AF	37 AF	>200	>400
H3453	20	18.8 50% AT	15 50% AT	>200	>160
H3403X	50	26.3 AF	26 AF	89.4	179
H3403X	25	21.1 AF	21 AF	95.7	96
H3406	50	17.7 AF	35.5 AF	148.63	297
H6901	50	42.2 AF	84 AF	>200	>400
H6602	50	31.1 AF	62 AF	189.6	379

AF = Adhesive Failure - clean peel

AT = Adhesive Transfer - adhesive transferred from substrate to test panel

Esther Hetterley  
Adhesive Technical Services Ltd  
22<sup>th</sup> March 2018

Testing. Advising. Assuring.

Exova Warringtonfire, Frankfurt ist vom Kraftfahrt-Bundesamt (KBA) unter der Registriernummer KBA-P-00003-00 als Prüflaboratorium für Prüfungen nach RREG 70/221/EWG in der Fassung 2000/8/EG, Anh.I und der RREG 95/28/EG anerkannt



## Prüfbericht / Testreport Nr. / No. 2018-1881

Vom / issued 22.11.2018

**Auftraggeber:**  
**Applicant:**

Heskins Ltd  
Churchill Road Industrial Estate  
Chorley, PR6 8RQ  
United Kingdom

**Auftragsdatum / Date of order:**  
**Datum der Probenahme:**  
**Date of sampling :**

**10.10.2018**  
**keine offizielle Probennahme durch einen Beauftragten**  
**von Exova Warringtonfire, Frankfurt**  
**no official sampling by a representative of Exova**  
**Warringtonfire, Frankfurt**

**Eingang der Proben:**  
**Sample received:**  
**Datum der Prüfungen:**  
**Test date:**

**30.10.2018**  
**06.11.2018**

### Auftrag / Order

Brandprüfung nach Richtlinie ECE R-118.03, Anhang 6, 7 und 8  
(95/28/EG Anhang IV, 95/28/EG Anhang V, 95/28/EG Anhang VI, EVO 132.40 (2012-01-12)  
DBL 5307.10, FMVSS 302 und CFMVSS 302)  
Fire test according to ECE R-118.03, Annex 6, 7, and 8  
(95/28/EG Annex IV, 95/28/EG Annex V, 95/28/EG Annex VI, EVO 132.40 (2012-01-12)  
DBL 5307.10, FMVSS 302 and CFMVSS 302)

### Beschreibung / Bezeichnung des Prüfgegenstandes Description / Designation of the tested material

Produktname: Heskins safety-grip  
product name: Heskins safety-grip

### Beschreibung der zugrunde liegenden Prüfverfahren Description of the relevant tests

- Horizontale Flammenausbreitung nach ECE R-118-03 Anhang 6 (95/28/EG Anhang IV, EVO 132.40 (2012-01-12), DIN 75200, FMVSS 302, CMVSS 302 und DBL 5307.10)  
*horizontal flame spread according to ECE R-118-03 Annex 6 (95/28/EG Annex IV, EVO 132.40 (2012-01-12), DIN 75200, FMVSS 302, CMVSS 302 and DBL 5307.10)*
- Schmelzverhalten, des Abtropfverhaltens nach ECE R-118-03 Anhang 7 (95/28/EG Anhang V, EVO 132.40 (2012-01-12))  
*melting behaviour, drip off behaviour according to ECE R-118-03 Annex 7 (95/28/EG Annex V, EVO 132.40 (2012-01-12))*
- Vertikale Flammenausbreitung nach ECE R-118-03 Anhang 8 (95/28/EG Anhang VI, EVO 132.40 (2012-01-12))
- *vertical flame spread according to ECE R-118-03 Annex 8 (95/28/EG Annex VI, EVO 132.40 (2012-01-12))*



## 1. Beschreibung des Probenmaterials *Description of the test material*

### 1.1 Angaben des Auftraggebers: *Details of the customer:*

Produktname: Heskings safety-grip  
*product name: Heskings safety-grip*

Prüfseite / schwarze raue Seite  
*Face to be tested: the black abrasive (rough) side*

#### Aufbau / Construction:

The material is made up of four layers:

1. Disposable backing liner
2. Double-sided acrylic adhesive tape
3. PVC film carrier
4. Upper layer comprising aluminium oxide crystals set in colored resin

Dicke / *Thickness:* 0,7 mm (with backing liner removed)

Flächengewicht / 670 g/m<sup>2</sup> (with backing liner removed)

*gross weight:*

Farbe / *colour:* schwarz / *black*

Vorgesehener Einsatzbereich /  
*Intended end use of product:*

To provide an anti-slip surface in situations where additional slip resistance is required e.g. steps, walkways, vehicle ramps

1.2 Bei der Probenvorbereitung durch Exova Warringtonfire, Frankfurt festgestellte Werte:  
At the specimen preparation from the Exova Warringtonfire, Frankfurt determined values:

Selbstklebender Anti-Rutsch Belag auf 1,5 mm Alublech verklebt /  
self-adhesive non-slip coating glued on a 1,5 mm aluminium sheet

Farbe / Colour: schwarz / black

Dicke / Thickness: 0,73 mm

Flächengewicht /  
gross weight: 588 g/m<sup>2</sup>

Prüfung nach Klimalagerung bei 23°C und 50 % rel. Luftfeuchte.  
Testing after climatic storage at 23°C and 50% rel. humidity.

## 2. Versuchsergebnisse / Test result

### 2.1 Prüfblatt nach ECE R-118-03 Anhang 6 (95/28/EG – IV) (Bestimmung der horizontalen Flammenausbreitung)/ (Determination of the horizontal flame spread) Test sheet acc. to ECE R-118-03 Annex 6 (95/28/EG – IV)

Beflammungszeit 15 s / ignition time 15 s

Probe Nr. sample No.	brennt <i>burning</i>	Brennstrecke burning distance	Brennzeit / burn time	verlöscht vor 1. Marke <i>extinguish</i> before 1. mark	verlöscht vor 2. Marke <i>extinguish</i> before 2. mark	Brenngeschw. Flame spread speed
	ja / yes nein / no	(mm)	(s)			(mm/min)
1	nein/no	0	0	0	0	0,00
2	nein/no	0	0	0	0	0,00
3	nein/no	0	0	0	0	0,00
4	nein/no	0	0	0	0	0,00
5	nein/no	0	0	0	0	0,00
Mittelwert average		0,0	0,0	0,0	0,0	0,00

Beobachtungen / *Observations*: Keine besonderen Beobachtungen.  
No special observations

Flammenausbreitungsgeschwindigkeit im Mittel: 0,00 mm/min  
*Flame spread in average*  
Maximale Flammenausbreitungsgeschwindigkeit: 0,00 mm/min  
*Maximal flame spread*



## 2.2 Prüfblatt nach ECE R-118-03 Anhang 7 (95/28/EG – V) (Bestimmung des Schmelzverhaltens, brennenden Abtropfens)

*Test sheet acc. to ECE R-118-03 Annex 7 (95/28/EG – V)  
(Determination of the melting behavior, burning droplets)*

Proben Nr. sample No.	1	2	3	4
<b>Entflammung / Dauer [ s ]</b> <b>Ignition / Duration [ s ]</b>				
1. Entflammung / Dauer [ s ] Ignition / Duration [ s ]	65/40	60/40	55/35	50/35
2. Entflammung / Dauer [ s ] Ignition / Duration [ s ]	-	-	-	-
3. Entflammung / Dauer [ s ] Ignition / Duration [ s ]	-	-	-	-
4. Entflammung / Dauer [ s ] Ignition / Duration [ s ]	-	-	-	-
5. Entflammung / Dauer [ s ] Ignition / Duration [ s ]	-	-	-	-
6. Entflammung / Dauer [ s ] Ignition / Duration [ s ]	-	-	-	-
7. Entflammung / Dauer [ s ] Ignition / Duration [ s ]	-	-	-	-
8. Entflammung / Dauer [ s ] Ignition / Duration [ s ]	-	-	-	-
9. Entflammung / Dauer [ s ] Ignition / Duration [ s ]	-	-	-	-
10. Entflammung / Dauer [ s ] Ignition / Duration [ s ]	-	-	-	-
Entflammen durch Strahler Ignition by radiator	ja/yes	ja/yes	ja/yes	ja/yes
Abtropfen / Dripping	nein/no	nein/no	nein/no	nein/no
Brennendes Abtropfen burning dripping	nein/no	nein/no	nein/no	nein/no

\* = wenn nicht zutreffend - / \* = if not applicable -;

Bemerkungen / Remarks: keine / none

**2.3. Prüfblatt nach ECE R-118-03 Anhang 8 (95/28/EG – VI)**  
**(Bestimmung der vertikalen Flammenausbreitung)**  
**Test sheet according to ECE R-118-03 Annex 8 (95/28/EG – VI)**  
**(Determination of the vertical flame spread)**

**Probengröße / sample size: 560 mm x 170 mm**

Vorversuch zur Bestimmung der Flammenanwendung u. ermittelte Flammenanwendung:  
pre-test for determination of the flame application:

Proben Nr. / Sample No.		1	2	3	4	5	6
Prüfrichtung / test direction							
Beflammungszeit / flaming time	[s]	5	15	15			
Gesamtbrennzeit / total burn time	[s]	5	15	15			
Nachbrennzeit / afterflaming time	[s]	0	0	0			
Nachglühzeit / after glowing time	[s]	0	0	0			
Erreichen der 1. Markierung in reach of the 1 <sup>st</sup> mark in	[s]	-	-	-			
Erreichen der 2. Markierung in reach of the 2 <sup>nd</sup> mark in	[s]	-	-	-			
Erreichen der 3. Markierung in reach of the 3 <sup>rd</sup> mark in	[s]	-	-	-			
Brenngeschwindigkeit v1 burning speed v1	[mm/min]	0/0	0/0	0/0			
Brenngeschwindigkeit v2 burning speed v2	[mm/min]	0/0	0/0	0/0			
Brenngeschwindigkeit v3 burning speed v3	[mm/min]	0/0	0/0	0/0			
Abfallen von Probenteilen* fall down of sample parts*		nein no	nein no	nein no			
Abfallen von brennenden Probenteilen* fall down of burning sample parts*		nein no	nein no	nein no			
Zerstörter Bereich destroyed area	Länge length	[mm]	0	0	0		
Zerstörter Bereich destroyed area	Breite width	[mm]	0	0	0		

\* wenn nicht zutreffend, -

\* if not applicable, -

Bemerkungen: Proben gelöscht  
Remarks: samples extinguished



### **3. Beurteilung / Assessment**

Das in Abschnitt 1 beschriebene Material hat in Bezug auf sein Brandverhalten und sein Abtropfverhalten die Anforderungen nach  
*The material, described in chapter 1 fulfils the criteria according to its burning and dripping behavior*

ECE R-118-03 Anhang 6 (95/28/EG Anhang I - 7.2.1)  
(Flammenausbreitung / *Flame spread speed* <100 mm/min) erfüllt / passed

ECE R-118-03 Anhang 7 (95/28/EG Anhang I - 7.3.1)  
(kein Entzünden der Watte durch Tropfen / *no ignition of the cotton wool*) erfüllt / passed

ECE R-118-03 Anhang 8 (95/28/EG Anhang I - 7.4.1)  
(vertikale Flammenausbreitung / *vertical flame spread speed* <100 mm/min) erfüllt / fulfill

### **4. Besonderer Hinweis / Special remark**

Das Brandversuchsergebnis gilt für das in Abschnitt 1 beschriebene Material in der geprüften Dicke, Flächengewicht und Farbe.  
*The fire test result is only valid for the in chapter 1 described material in the tested thickness, square weight and colour.*

Im Verbund mit anderen Materialien (z.B. Beschichtungen, Hinterlegungen) kann das Brandverhalten ungünstig beeinflusst werden, so dass die o. a. Klassifizierung nicht mehr gültig ist. Das Brandverhalten des Materials im Verbund mit anderen Materialien ist gesondert nachzuweisen.  
*In combination with other materials (for example coatings, deposits) the burning behaviour could be influenced unfavourable so that the classification above is no longer valid.*  
*The burning behaviour in combination with other materials has to be tested separately.*

Frankfurt, den/the 22.11.2018



A. Garcia  
Verantwortlicher Prüfer  
Tester in Charge



M. Ronzheimer  
Senior Test Officer



Die Prüfergebnisse beziehen sich nur auf das Verhalten der Proben unter den speziellen Prüfbedingungen bei der Prüfung; sie sind nicht als einziges Kriterium zur Bewertung der potentiellen Brandgefahr des Produktes im Anwendungsfall zu verstehen.  
Prüfberichte dürfen ohne Zustimmung von Exova Warringtonfire, Frankfurt nur nach Form und Inhalt unverändert veröffentlicht oder vervielfältigt werden. Die gekürzte Wiedergabe eines Prüfberichts ist nur mit Zustimmung von Exova Warringtonfire, Frankfurt zulässig.  
Dieser Prüfbericht ist zweisprachig ausgestellt und umfasst 7 Seiten, im Zweifelsfall ist alleine die deutsche Version gültig.  
*These test results relate only to the behavior of the test specimens under the particular conditions of the test. They are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.*  
*Test reports are only allowed to be published or reproduced, not changed in form and tenor without permission of Exova Warringtonfire Frankfurt. The abridged account of a test certificate is only allowed with the agreement of Exova Warringtonfire, Frankfurt.*  
*The test report is issued bilingually and contains 7 pages. In case of doubt only the German version is valid.*



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## TEST CERTIFICATE

No. 20151/1

Client

**Heskins Limited**

Churchill Road Industrial Estate  
Brinscall  
Chorley  
PR6 8RQ

Fabric Reference

**Sample 1**

Descriptions are information  
supplied by the client

Dimensions (approx) **1 roll**

Sample received **1/5/2007**

**PRETREATMENT:** None

### INDICATIVE TESTING (due to shortage of specimens)

Test results relate only to the sample tested. Specimens from both length and width were tested in accordance with BS 5438 : 1976 Test 2 using a 15 second flame application time. The results obtained (shown in the table below) were assessed according to the requirements of BS 5867 : 1980 Part 2.

The test results may not apply to situations where there is a restricted air supply or prolonged exposure to large sources of intense heat as in a conflagration. The second specimen in each direction was tested in the inverse direction to the other two specimens. Testing was carried out on the face side of the fabric. The following results were noted.

Specimen	Face	Back	Face	Back
Flame reached an edge	No	Yes	No	Yes
Hole reached an edge	No	Yes	No	Yes
Flaming Debris separated	No	No	No	No

As requested, this testing was done to give a general indication of performance in a small flame vertical test.

For curtains and drapes both face and back must show "No" in all tests, any "Yes" means fail.

J.M. Brown   
C Chem MRSC C Text FTI  
Managing Director & Authorised Signatory

Checked by  .....

## ADHESIVE TECHNICAL SERVICES LTD.

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### **RE: Temperature Tests**

We have carried out temperature resistance tests on the samples of self adhesive backed abrasive material as follows.

Samples applied to stainless steel (AFERA specification)  
Aged for 24 hours at the following temperatures: -30°C, +55°C +62°C, +70°C  
After ageing samples assessed for sign of adhesion failure.

### **Results**

<b><u>Temperature</u></b>	<b><u>Coarse</u></b>
-30°C	No Adhesion Failure
+55°C	No Adhesion Failure
+62 °C	No Adhesion Failure
+70 °C	No Adhesion Failure

Best regards,

Peter Caton