

## **Pavement Testing Services Ltd Pavement Laboratory**

**CLIENT:**

**SUDwell™** Resin Bound Permeable Paving

**PROJECT: PTS1519-S-03 SUDwell - B - Scuffing**

1. TRL Report 176 Appendix G - Scuffing, as amended by BBA guidelines document for the assessment and certification of High Friction Surfacing for Highways

**NOTE\* Increased temperature from the standard test at 45°C to 60°C  
Also increased number of passes up to 2000 from 500 to stress the material**

**Report Authorised by A. Collier**

Pavement Testing Services Ltd  
87 Watling Street Road  
Fulwood  
Preston PR2 8BQ  
T: 01257 233242  
E: [info@ptsinternational.co.uk](mailto:info@ptsinternational.co.uk)



**4076**  
**Laboratory Test Report**  
**TRL Report 176 Sample Details**

**SLAB MANUFACTURE DETAILS**

Date and place of manufacture	05/06/2015
Material type and specification	SUDwell™
PSV of aggregate	50
Grading and proportion of aggregate source used	See attached certificate of conformity
Source, type and grade of the binder and any binder modifier	As above
Temperature at manufacture	15°C
<i>Manufactured in accordance with TRL Report 176 Appendix A and Appendix B:</i>	

**DETAILS OF SYSTEM AND ITS APPLICATION**

Date and place of installation	05/06/2015 in SUDwell Controlled environment
Installer Name	SUDwell™
Name of surface system	SUDwell™ Stone Binder P.U. 4844/A
Binder type	SUDwell P.U resin
Aggregate type	Danish Quartz
Binder batch number	9010446
Binder temperature prior to slab manufacture	15°C
Aggregate batch number	60454
Ambient temperature	15°C
Specified thickness of surfacing	50mm
<i>Surfacing carried out in accordance with SUDwell manufacturing process</i>	

Details and Appendix reference of conditioning test carried out prior to scuffing test	No conditioning tests carried out
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### Laboratory Test Report

The testing below was carried out in accordance with TRL Report 176 Appendix G - Scuffing, as amended by BBA guidelines document for the assessment and certification of High Friction Surfacing for Highways

#### Scuffing Test Details:

Temperature at which the test was carried out	60°C
Tyre and Tread type	215mm rubber tyre ribbed along length
Angle of the wheel	20°

#### Results

PTS Sample No		A15-4302		
External Ref No		A		
Texture Depth of Substrate (mm)		N/A		
Thickness of Slab (mm)		49.9		
SRV before Scuffing		N/A		
Date of Test		27/06/2015		
Tyre tread depth (mm)	Initial	1.11		
	Final	1.08		
Tyre Pressure (psi)	Initial	45		
	Final	44		
Surface Texture Depth	Initial	1.12		
	Final	0.85		
Erosion Index		0		
SRV Post Scuffing		N/A		
Mean Erosion Index		0.0		
Mean Initial Surface Texture Depth		1.12		
Mean Final Surface Texture Depth		0.85		
Mean Loss of Texture Depth (%)		24.1		
Mean Loss of SRV (%)		N/A		

Comments, Deviations, additions or exclusions from the method

Substrate texture depth is not applicable as slab is composed of material under test. 60°C test temp used at clients request.

#### Test procedures:

Determination of Texture TRL Report 176 Appendix D  
Determination of Erosion TRL Report 176 Appendix F

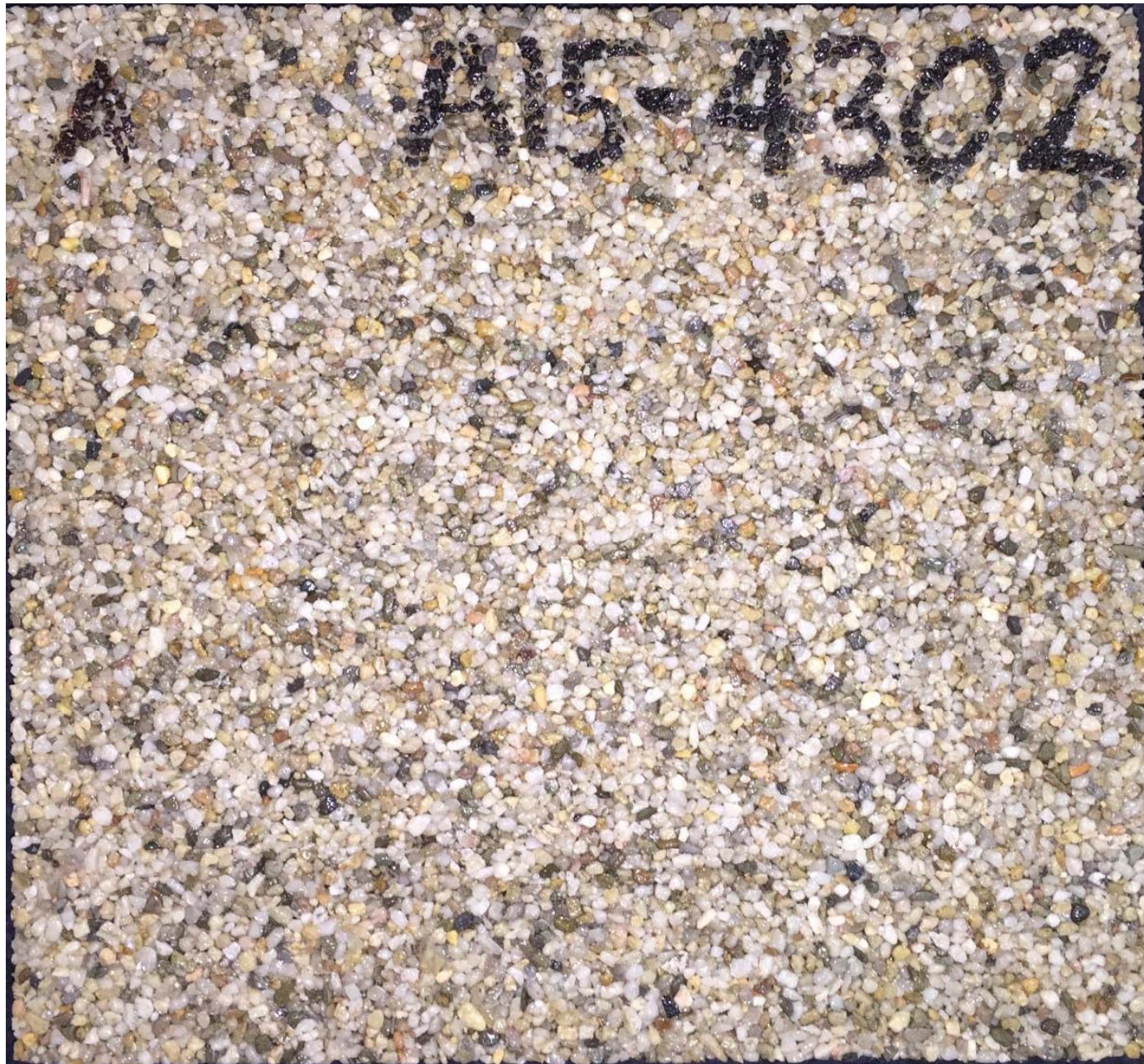
Signed:

( )  
( X )

D. Foster (Laboratory Manager)  
A. Collier (Quality Manager)

Report Date 11/07/2015





SLAB A - <Wheel Path> SCUFFING TEST - PTS  
Sample No A15-4302 - Zero Wheel Passes





SLAB A - <Wheel Path> SCUFFING TEST - Sample No A15-4302 - 2000 Wheel Passes at 60°C

Photo After 2000 Passes at 60°C. TRL176 Appendix F.7 Visual observations Comments: Nothing to note



Tel: +44 (0)1629 636500 · Fax: +44 (0)1629 636425

Email: [sales@derbyshireaggregates.com](mailto:sales@derbyshireaggregates.com) · Website: [www.derbyshireaggregates.com](http://www.derbyshireaggregates.com)

IMPORTERS AND SPECIALIST PROCESSORS OF CONSTRUCTIONAL AND DECORATIVE AGGREGATES

## **CERTIFICATE OF CONFORMITY**

**DATE: 2.4.15**

**PRODUCT/ CODE: PEARL QUARTZ 2-5MM DRPP89**

**DELIVERY NOTE NO: 60454 SUDwell™**

MM/MIC	TYPICAL GRADING	SPECIFICATIO N
10	100	100
6.3	100	95-100
3.35	24.2	10-30
2.36	4.4	2-15
0.6	0.2	0-3
0.15	0	0-2
Moisture content	0.02	0.5 max

### **Derbyshire Aggregates Ltd**

Arbor Low Works · Long Rake · Youlgrave · Bakewell · Derbyshire · DE45 1JS · England

DIRECTORS: - A.P.D Fewings, M. Poulter, K. Brassington, S. Buckley · Company Secretary: - K.B. Poulter

Company Registration No. 1833520 England