



## WET PENDULUM SLIP RESISTANCE TEST

### WaterKote 2K + NS-Invisible applied to plywood

**Prepared for:** Urethane Coatings  
David Pu  
2-4 Green Street  
BANKSMEADOW NSW 2019

**Specimen Description:** WaterKote 2K + NS-Invisible applied to plywood, 900x1200 mm.

**No. of Specimens:** 1 board tested in 5 areas (Sampling Conducted by Client)

**Specimen Preparation:** Washed with water and pH neutral detergent, rinsed then dried.

**Test Condition & Slope:** Unfixed, N/A

**Test Direction:** Test conducted parallel with grain of timber.

**Air Temperature:** 22°C

**Test Standard:** AS 4586:2013 Slip resistance classification of new pedestrian surface materials, Appendix A - Wet Pendulum Test

**Test Location:** ATTAR 44-48 Rocco Drive, Scoresby, VIC, 3179

**Test Date:** 11 October 2022

**Test Equipment:** Munro Stanley Pendulum Skid Resistance Tester Serial Number 0320, Calibrated 03/05/2022.

**Slider Rubber:** Slider 96 Batch No. #15 prepared on P400 & 3µm lapping film.

**Test Personnel:** Marcus Braché

Specimen Number	1	2	3	4	5
Mean British Pendulum Number (BPN)	52	54	54	53	51
Slip Resistance Value (SRV)	<b>53</b>				
Classification	<b>P4</b>				

These results apply only to the specimens tested and it is recommended that before selection of flooring or paving materials the effect of service conditions, including maintenance procedures and wear on their slip resistance be checked. Where alternatives are permitted by the standard, the choice of rubber slider used may also influence the test results obtained.

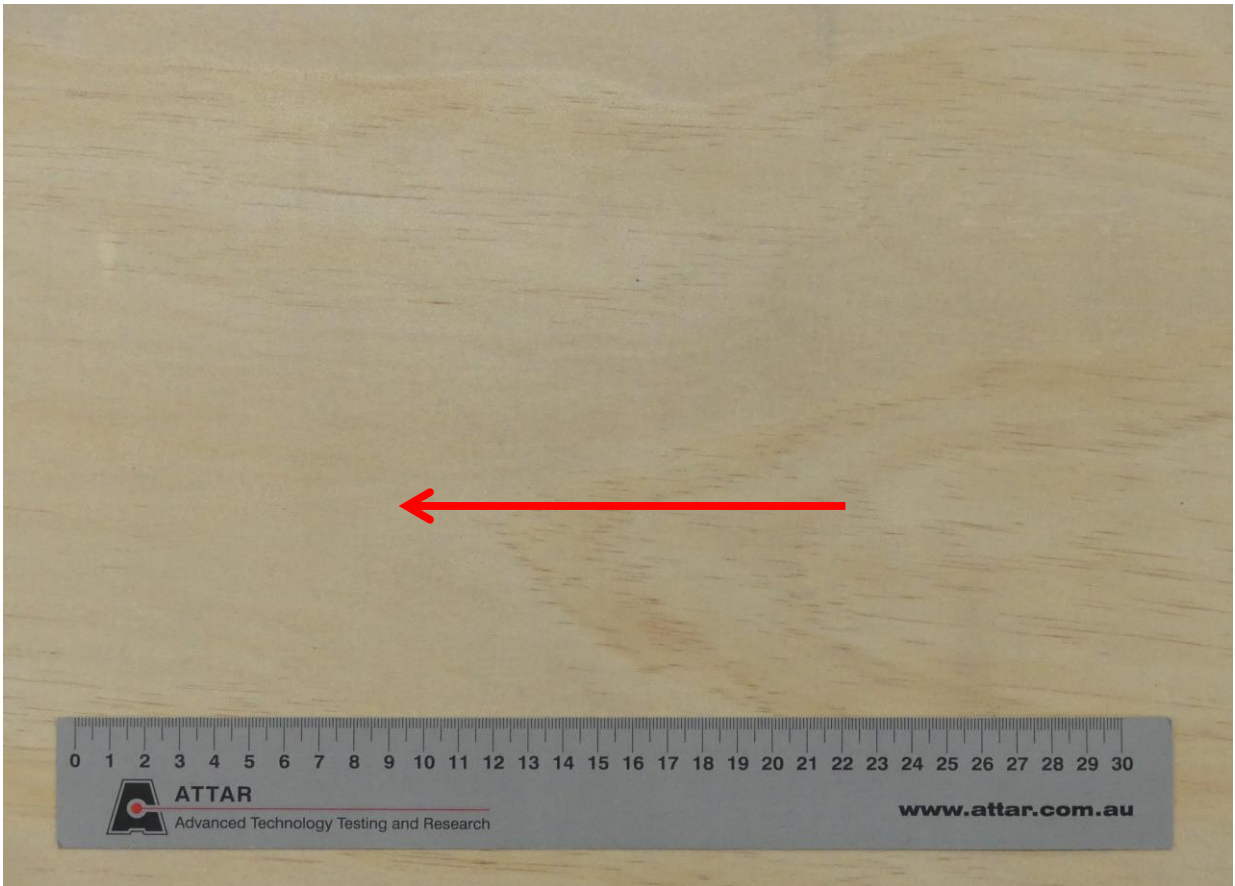
Reviewed By:



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General Manager - Compliance Services  
Approved Signatory



**Figure 1:** WaterKote 2K + NS-Invisible applied to plywood  
Arrow indicates direction of testing



## **CLASSIFICATION CRITERIA – AS 4586 – 2013** **Wet Pendulum Test - Appendix A**

### **Slip resistance**

When this Standard is used for the testing and classification of the slip resistance of carpets (or carpet-like products) in potentially wet locations, the carpet shall be tested using the wet pendulum test method set out in Appendix A of AS 4586, and shall be reported as such.

When this AS 4586 is used for the testing and classification of the slip resistance of carpets in dry locations, the test shall be carried out in the dry condition using the pendulum test method set out in Appendix A of AS 4586, modified in accordance with Paragraph A2, and shall be reported as such.

The 'dry floor friction' test method in Appendix B of AS 4586 is not suitable for heavily profiled surfaces or carpets.

### **Compliance**

The surface shall comply with the stated classification for the test method and test rubber that is nominated and declared by the manufacturer or supplier.

**TABLE 2: CLASSIFICATION OF PEDESTRIAN SURFACE MATERIALS  
ACCORDING TO THE AS 4586 WET PENDULUM TEST**

Class	Pendulum SRV (see Note 1)	
	Slider 96	Slider 55
P5	>54	>44
P4	45-54	40-44
P3	35-44	35-39
P2	25-34	20-34
P1	12-24	<20
P0	<12	

#### NOTES:

- 1 While Slider 96 or Slider 55 rubbers may be used, the test report shall specify the rubber that was used.
- 2 It is expected that these surfaces will have greater slip resistance when dry.
- 3 SDV may be calculated by using the tables that are given in Appendix F of AS 4586, and the minimum SRV that is considered appropriate for a level surface (see examples given in Appendix F of AS 4586).

### **Means of demonstrating compliance**

Pedestrian surfaces that are classified in accordance with Table 2 shall meet the following criteria:

- (a) The mean test results shall be as follows:
  - (i) For the classifications in Table 2, the mean of the test results shall be—
    - (A) within the relevant criteria set out in the table; and
    - (B) each individual result shall be equal to or above the lower limit for the classification or, if below the classification, within the mean of the result minus 20%.If either criteria is not met, the lot shall be considered to be of lower classification.
- (b) The classification in accordance with Table 2 shall be determined by—
  - (i) selecting and testing at least five specimens at random as specified in Appendices A and B of AS 4586; or
  - (ii) carrying out continuous testing and process control in accordance with AS 3942.
- (c) When testing individual lots, if a particular test fails to produce the expected classification it shall be permissible to—
  - (i) disregard the first sample, resample a minimum of 10 specimens from the whole lot, retest and apply the criteria to the new sample; or
  - (ii) subdivide the lot into smaller lots of different quality, resample, retest and reclassify each of the smaller lots.



## DRY FLOOR FRICTION SLIP RESISTANCE TEST

### WaterKote 2K + NS-Invisible applied to plywood

**Prepared for:** Urethane Coatings  
David Pu  
2-4 Green Street  
BANKSMEDOW NSW 2019

**Specimen Description:** WaterKote 2K + NS-Invisible applied to plywood, 900x1200 mm.

**No. of Specimens:** 1 off (Sampling Conducted by Client)

**Specimen Preparation:** Washed with water and pH neutral detergent, rinsed then dried.

**Test Condition & Slope:** Unfixed, N/A

**Test Direction:** Test conducted parallel with grain of timber.

**Air Temperature:** 22°C

**Test Standard:** AS 4586:2013 Slip resistance classification of new pedestrian surface materials, Appendix B - Dry Floor Friction Test

**Test Location:** ATTAR 44-48 Rocco Drive, Scoresby, VIC, 3179

**Test Date:** 11 October 2022

**Test Equipment:** Tortus Floor Friction Tester Mk II, Serial Number 233

**Slider Rubber:** Slider 96 Batch No. #12 prepared on P400 SiC paper.

**Test Personnel:** Marcus Braché

Coefficient of Friction (COF):	Run 1	Run 2
		0.85
<b>Mean COF (rounded to 0.05)</b>	<b>0.85</b>	
<b>Classification:</b>	<b>D1</b>	

These results apply only to the specimens tested and it is recommended that before selection of flooring or paving materials the effect of service conditions, including maintenance procedures and wear on their slip resistance be checked.

Prepared by:

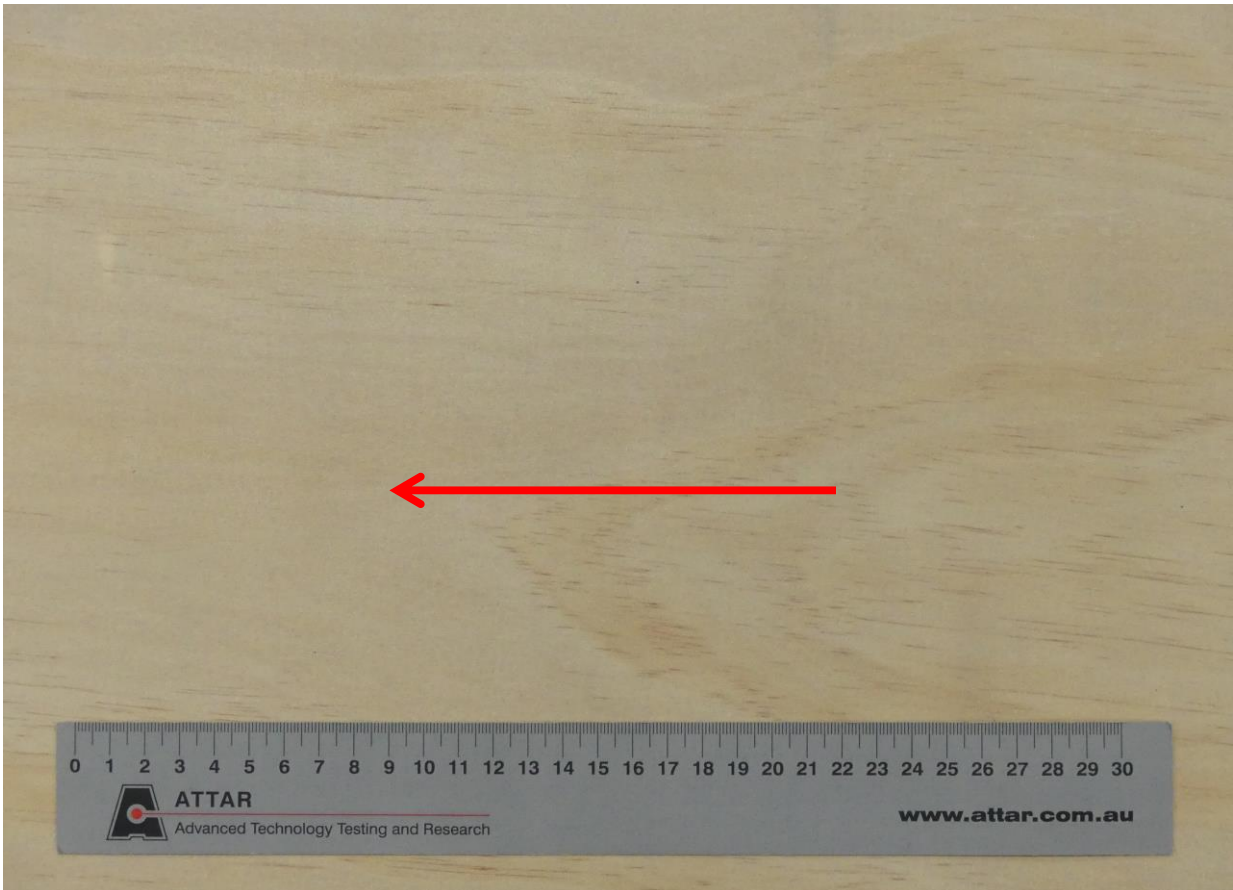
Reviewed By:



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Approved Signatory



Daniel King BSc/BEng (mat) Hons., MIEAust  
General Manager - Compliance Services  
Approved Signatory



**Figure 1:** WaterKote 2K + NS-Invisible applied to plywood  
Arrow indicates direction of testing



## **CLASSIFICATION CRITERIA – AS 4586: 2013** **Dry Floor Friction Test - Appendix B**

### **Slip resistance**

The 'dry floor friction' test method in Appendix B is not suitable for heavily profiled surfaces or carpets.

### **Compliance**

The surface shall comply with the stated classification for the test method that is nominated and declared by the manufacturer or supplier.

**TABLE 3: CLASSIFICATION OF PEDESTRIAN SURFACE MATERIALS  
ACCORDING TO THE AS 4586 DRY FLOOR FRICTION TEST**

<b>Classification</b>	<b>Floor friction tester mean value</b>
D1	$\geq 0.40$
D0	$< 0.40$

### **Means of demonstrating compliance**

Pedestrian surfaces that are classified in accordance with Table 3 where appropriate, shall meet the following criteria:

- (a) The mean test results shall be as follows:
  - (i) For Classification D1 in Table 3—
    - (A) the mean of the test results shall be equal to or greater than 0.4; and
    - (B) each individual slope corrected result shall be equal to or greater than 0.35.

If either of these criteria is not met, the lot shall be considered to be Classification D0.
- (b) The classification in accordance with Table 3 shall be determined by—
  - (i) selecting and testing specimens at random as specified in Appendix B of AS4586; or
  - (ii) carrying out continuous testing and process control in accordance with AS 3942.
- (c) When testing individual lots, if a particular test fails to produce the expected classification it shall be permissible to—
  - (i) disregard the first sample, resample a minimum of 10 specimens from the whole lot, retest and apply the criteria to the new sample; or
  - (ii) subdivide the lot into smaller lots of different quality, resample, retest and reclassify each of the smaller lots.