

Fact Sheet

Anti-Slip Skid Test

In order to provide industry best practice recommendations, Nutech Paint has conducted a series of standardised tests to determine the correct type of coating to be specified and the amount of anti-slip aggregate required, in order to meet the specified Australian Standards outlined in HB198:2014 Guide Book for specifiers, manufacturers and suppliers in the application of AS4586 and AS4663.

- *AS4586 Slip resistance classification of new pedestrian surface materials*
- *AS4663 Slip resistance measurement of existing pedestrian surfaces*

Testing Apparatus:

The British Pendulum friction tester is an apparatus used to assess the slip resistance of a pedestrian flooring surfaces in a controlled manner, in order to determine and the risk of slip on a pre-determined surface. The testing apparatus comprises of a weighted metal boot with a spring loaded rubber slider at the base that swings down in an arc sliding across the test subject surface. A gradient scale records the result as the boot traverses the surface at the end of the swinging arc.



British Pendulum Skid Test Apparatus

Testing Method:

The wet pendulum slip resistance test is conducted using a British Pendulum Number (BPN) 96 slider which is generally used for all types of surfaces. (Note: BPN 96 was formerly noted as TRL rubber and is also referenced in this document)

Flat surfaces: Conducted in a wet condition by spraying the surface with water. Test criteria assessed on a ***P rating***

Sloping surfaces: Conducted in a wet condition by spraying the surface with oil. Test criteria assessed on a ***R rating***.*

As a minimum requirement, the pendulum is swung across the surface in a series of five test events. An average of the last three readings are used to calculate the result.

Although there is no direct correlation between a P rating and an R rating, compliance is demonstrated by achieving the value set out in the table on page 2 for either the water-wet pendulum test or the oil-wet inclining ramp test.

For reference, it is not necessary to meet both criteria.

The rating can then be used to determine the correct sealer or coating to be used in conjunction with the relevant Nutech AntiSlip product that complies with the relevant rating outlined in AS4586 and AS4663 also on page 2.

Pendulum Classification		BPN Range		Recommended use for P5 to P0 According to: HB198:2014
AS4586 water wet	Inclining oil-wet	BPN 96	TRL	
P5	R12	> 54	> 44	External ramps steeper than 1 in 14. Loading docks, commercial kitchens, swimming pool ramps and stairs
P4	R11	45 - 54	40 -44	External colonnade and walkways, pedestrian crossings, driveways, veranda's, balconies, serving areas behind bars, cold stores, swimming pool surrounds, communal shower rooms
P3	R10	35 - 44	35 - 39	Shopping centre; food court, fresh food areas, entries & access areas. Public buildings – Wet undercover concourse of sports stadiums, bathrooms in hospitals and aged care facilities, toilet facilities in public buildings.
P2	-	25 - 34	20 - 34	Public building entries & access areas (Transitional), hotel bathrooms, ensuites and toilets, hotel kitchens and laundries, hospitals & aged care facilities - wards and corridors.
P1	-	< 25	< 20	Public building entries & access areas, Dry Supermarket aisles (excluding fresh food areas)

Anti-Slip Product & Coating System Recommendations

Note: the use of Mix In Anti-Slip products are not suitable for 2 Pack Systems. AntiSlip Cast On MUST be used

Anti-Slip Product / Quantity per 20L	Nutech Coating System	Pendulum Classification
AntiSlip Mix In - 1x400gm Jar per 20L	Single Pack Sealers	Wet P2
	Pavecoat Pavecoat H2O	
AntiSlip Mix In - 2x400gm Jar (800gm) Per 20L	Single Pack Sealers & Coatings	Wet P3
	Pavecoat Petrol Resistant Pavecoat H2O	
	EPiC Industrial Enamel	
AntiSlip Cast On Fine Broadcast at 2-5m ² /kg onto wet surface. Must be top coated to encapsulate.	2 Pack System Sealers & Coatings	Wet P4
	EPiC Epoxy 500 EPiC Polycryl	
AntiSlip Cast On Coarse Broadcast at 2-5m ² /kg onto wet surface. Must be top coated to encapsulate.	2 Pack System Sealers & Coatings	Wet P5
	EPiC Epoxy 500 EPiC Polycryl	
NuCourt Factory mix product	Single Pack Sealers	Wet P5
	NuCourt Pro Coat NuCourt Roll On	

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