

# SLIP RESISTANCE TESTING

In accordance with ANSI A137.1/A326.3<sup>1</sup>

**BACKGROUND:** The purpose of this test is to confirm that Hawk's coating systems, combined with StandFast™ Traction Additive, provide a Dynamic Coefficient of Friction of 0.42 or greater, as measured using the BOT-3000E digital tribometer.

**METHODOLOGY:** The GlasTech® 9000 Series (Standard and Lo), the IsoFree® Series (Standard and Lo), and the AresGard Lo Coating Systems were combined with StandFast Traction Additive at a ratio of 2 parts mixed coating to 1 part StandFast Traction Additive, then applied to separate ceramic tiles, and allowed to fully cure at ambient temperatures.

The fully cured coated tiles were cleaned with Renovator #120, tested with a BOT-3000E digital tribometer using SBR rubber slider, and 0.05% SLS water solution at 82°F and a relative humidity of 35%.

**RESULTS:** Under testing conditions, when the GlasTech 9000 Series (Standard and Lo), IsoFree Series (Standard and Lo), or AresGard Lo coatings are combined with StandFast Traction Additive at a 2:1 mix ratio, the mixed coating systems provide a Dynamic Coefficient of Friction which exceeds the ANSI recommendations of 0.42 or greater.

Coating System	Test #	Area #1 Wet	Area #2 Wet	Area # 3 Wet	Overall Wet Average
GlasTech 9000 Series (Standard & Lo)	1	0.66	0.65	0.66	0.64
	2	0.64	0.63	0.64	
	3	0.62	0.62	0.62	
	4	0.62	0.62	0.63	
	AVERAGE	0.64	0.63	0.64	
IsoFree Series (Standard & Lo)	1	0.62	0.61	0.62	0.57
	2	0.57	0.57	0.57	
	3	0.55	0.55	0.55	
	4	0.54	0.54	0.55	
	AVERAGE	0.57	0.57	0.57	
AresGard Lo	1	0.51	0.48	0.50	0.46
	2	0.43	0.46	0.45	
	3	0.42	0.46	0.41	
	4	0.46	0.47	0.41	
	AVERAGE	0.46	0.47	0.44	

<sup>1</sup> American National Standards Institute test for measuring Dynamic Coefficient of friction, as tested and certified by independent laboratory, Sotter Engineering Corporation.

ANSI A137.1/A326.3 states that: "Unless otherwise specified, hard surface flooring materials suitable for level interior spaces expected to be walked upon wet with water shall have a wet DCOF of 0.42 or greater when tested using SBR sensor material and SLS solution as per this standard. However, hard surface flooring materials with a DCOF of 0.42 or greater are not necessarily suitable for all projects. The specifier shall determine materials appropriate for specific project conditions, considering by way of example, but not in limitation, "type of use, traffic, expected contaminants, expected maintenance, expected wear, and manufacturers' guidelines and recommendations. "... The presence on installed hard surface flooring materials of water, oil, grease, and/or any other elements which reduce traction, creates slippery conditions ... Applications with exposure to such elements require extra caution in product selection, use, and maintenance. ... When tested using SBR sensor material and SLS solution as per the procedure in this standard, hard surface flooring materials with a wet DCOF of less than 0.42 shall only be installed when the surface will be kept dry when walked upon and proper safety procedures will be followed when cleaning the hard surface flooring materials." ANSI A326.3 further states, "The coefficient of friction (COF) measurement provided in this standard is an evaluation of hard surface flooring materials under known conditions using a standardized sensor material prepared according to a specific protocol. As such it can provide a useful comparison of surfaces, but does not predict the likelihood a person will or will not slip on a hard surface flooring material." This standard has no recommendations for outdoor floors or for ramps.



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