



# LABORATORY REPORT

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**FOR:** Kevin Sigourney, PROSOCO, Inc.

**SUBJECT:** Slip Resistance of PROSOCO, Inc. Treatments  
Lawrence, KS

**DATE:** May 17, 2017  
**PROJECT:** 1704-07 SLR

**SAMPLES TESTED:**

<u>Sample Area Tested</u>
Areas of steel-troweled concrete and concrete polished to 1500 grit at PROSOCO, Inc.'s headquarters in Lawrence, KS

Submitted By: Kevin Sigourney

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**PURPOSE OF TEST:**

- To determine the slip resistance characteristics of specific PROSOCO, Inc. treatments on polished and steel-troweled concrete when tested in accordance with ANSI/NFSI B101.1.
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**PRODUCTS EVALUATED:**

<b>Treatments</b>
Consolideck® LS/CS®
Consolideck® LS®
Consolideck® Blended Densifier
Consolideck® LSGuard®
Consolideck® PolishGuard
Consolideck® Concrete Protector WB
Consolideck® Concrete Protector SB
Consolideck® SLX100® Water & Oil Repellent
Consolideck® 244 Salt Screen Additive used in Consolideck® LS/CS®
Consolideck® GuardEXT
PROSOCO DuraSheen

**TEST AREA PREPARATION:**

The PROSOCO, Inc. products were applied in accordance with the Product Data Sheet instructions. The treatments were allowed to cure for at least 7 days prior to the slip resistance testing.

**PHOTOGRAPHS:**

**Tested Area**



**TEST METHODS: ANSI/NFSI B101.1-2009 Test Method for Measuring Wet SCOF of Common Hard-Surface Floor Materials**

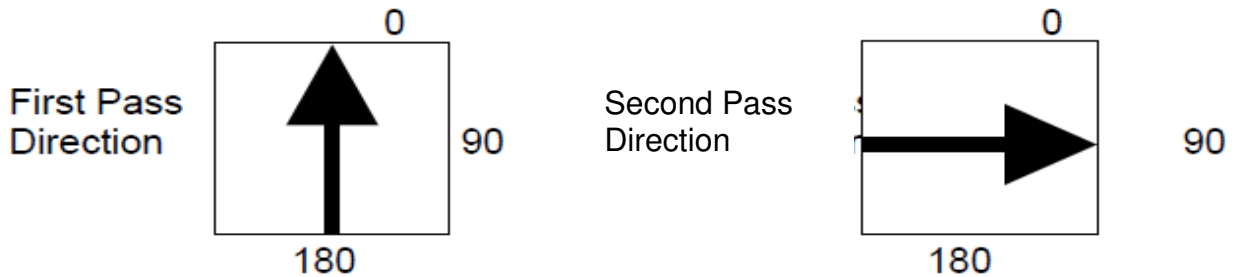
This test procedure is conducted using an approved tribometer designed to measure the wet static coefficient of friction (SCOF) of a floor or walkway surface under anticipated use.

**Measuring the Wet SCOF of Installed Flooring Material (In-Situ Procedure)**

The floor/walkway surface area to be tested must be spacious enough to fully accommodate the normal operation of the testing device without restriction. Effort should be made to test each sample area using a minimum of two directions, 90 degrees apart; often referred to as an “X-Y” pattern. One of the tests should be performed in the direction of normal pedestrian traffic if possible.

The test surface of the Neolite material shall be maintained as to prevent buildup of contaminants that may affect the SCOF test results. The neolite test material must be soaked in distilled or de-ionized water for a minimum of five minutes before testing commences.

1. Create a wet test path using distilled or de-ionized water of sufficient length and width in accordance with the test device instructions for wet SCOF testing.
2. Place the measuring device on the surface and conduct the test in one direction. Record the resulting SCOF value.
3. Dry the test surface by blotting with a dry lint-free cloth. Use care to not contaminate the surface condition.
4. Check the Neolite testing material for contamination or deformation after each test and recondition per the device manufacturer’s directions if required.
5. Repeat the above procedure at a 90-degree angle from the original test path.



6. Repeat both directional test measurements for each area to be tested.

**DATA INTERPRETATION TABLE**

Wet SCOF ( $\mu$ )	Slip Resistance Potential
$\geq 0.60$	High Traction (lower probability of slipping)
$0.40 \leq 0.60$	Moderate Traction (increased probability of slipping)
$< 0.40$	Minimal Available Traction (higher probability of slipping)

**TEST RESULTS: Slip Resistance Evaluation**

**Concrete Polished to 1500 Grit**

<b>Area Tested</b>	<b>AVERAGE Wet SCOF</b>	<b>*Slip Resistance Potential</b>
Untreated Control	0.76	High Traction (Lower probability of slipping)
Consolideck® LS/CS®	0.65	High Traction (Lower probability of slipping)
Consolideck® LS®	0.79	High Traction (Lower probability of slipping)
Consolideck® Blended Densifier	0.95	High Traction (Lower probability of slipping)
Consolideck® LSGuard®	0.86	High Traction (Lower probability of slipping)
Consolideck® PolishGuard	0.86	High Traction (Lower probability of slipping)
Consolideck® Concrete Protector WB	0.79	High Traction (Lower probability of slipping)
Consolideck® Concrete Protector SB	0.88	High Traction (Lower probability of slipping)
Consolideck® SLX100® Water & Oil Repellent	0.77	High Traction (Lower probability of slipping)
Consolideck® 244 Salt Screen Additive used in Consolideck® LS/CS®	0.75	High Traction (Lower probability of slipping)
Consolideck® GuardEXT	0.94	High Traction (Lower probability of slipping)
PROSOCO DuraSheen	0.86	High Traction (Lower probability of slipping)

\*NOTE: It is important to note that this category is not indicative of all possible conditions. There are numerous variables that may add to, or take from the available slip resistance potential of any given floor surface (i.e. type or style of footwear, types and frequency of contaminants, pedestrian preoccupation, etc.).

The final test results shall be recorded as SCOF values on a linear scale from 0.00 to 1.00 $\mu$ . Per the B101.1 test method, the desired value for wet SCOF is  $\geq 0.60$ . It should be noted that the larger the SCOF the more resistant the surface is to slipping.

**TEST RESULTS: Slip Resistance Evaluation (cont.)**

**Steel Troweled Concrete**

<b>Area Tested</b>	<b>AVERAGE Wet SCOF</b>	<b>*Slip Resistance Potential</b>
Untreated Control	0.85	High Traction (Lower probability of slipping)
Consolideck® LS/CS®	0.67	High Traction (Lower probability of slipping)
Consolideck® LS®	0.61	High Traction (Lower probability of slipping)
Consolideck® Blended Densifier	0.71	High Traction (Lower probability of slipping)
Consolideck® LSGuard®	0.76	High Traction (Lower probability of slipping)
Consolideck® PolishGuard	0.84	High Traction (Lower probability of slipping)
Consolideck® Concrete Protector WB	0.82	High Traction (Lower probability of slipping)
Consolideck® Concrete Protector SB	0.76	High Traction (Lower probability of slipping)
Consolideck® SLX100® Water & Oil Repellent	0.76	High Traction (Lower probability of slipping)
Consolideck® 244 Salt Screen Additive used in Consolideck® LS/CS®	0.62	High Traction (Lower probability of slipping)
Consolideck® GuardEXT	0.86	High Traction (Lower probability of slipping)
PROSOCO DuraSheen	0.94	High Traction (Lower probability of slipping)

\*NOTE: It is important to note that this category is not indicative of all possible conditions. There are numerous variables that may add to, or take from the available slip resistance potential of any given floor surface (i.e. type or style of footwear, types and frequency of contaminants, pedestrian preoccupation, etc.).

The final test results shall be recorded as SCOF values on a linear scale from 0.00 to 1.00μ. Per the B101.1 test method, the desired value for wet SCOF is ≥0.60. It should be noted that the larger the SCOF the more resistant the surface is to slipping.



Courtney A. Murdock, CDT  
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