

Soft Tread & Safe Tread Coefficient of Friction Test Results

Substrate	Test 1	Test 2	Test 3	Average
Pine Decking Lumber 1" X 8" Dry	9.7	8.7	9.3	9.2 = 0.495 CoF
Vinyl Composite Tile Dry	10.8	10.9	12.3	11.3 = 0.608 CoF
Safe Tread Black	14.4	13.9	13.3	13.9 = 0.747 CoF
Safe Tread Yellow	15.1	15.2	14.9	15.0 = 0.806 CoF
Safe Tread Clear	12.9	12.6	12.0	12.5 = 0.672 CoF
Soft Tread Black	12.7	12.1	12.9	12.6 = 0.677 CoF

Soft Tread is a product designed for moderate traction on pavers, concrete, pool areas, boat decks and docks. It is designed to be easy on bare feet and knees and is less aggressive.

Safe Tread (colored) is a very aggressive product designed for industrial settings, wheelchair ramps, school ramps for portable buildings and other areas where extreme traction is required.

Safe Tread Clear is designed to be somewhat invisible while providing moderate traction for decorative surfaces such as wooden stairs, stained concrete or VCT.

Test Date: June 24, 2011

Test Sled dimensions: 4" X 6" carrying weight of 18.6#

Test results in # required to start Test Sled movement.

All Substrates were dry and fully cured for a minimum of 2 months prior to testing.

Tests were performed as per typical Static CoF testing guidelines in our laboratory. These results are believed to be accurate and are expressed for guidance and to show the relationship between our products and various other substrates. Any reliance on these numbers by any person should be backed up with their own testing to determine suitability for the use of any **Acry-Tech Non Skid Coatings**.

TorTestSM Floor Friction Testing Service
SOTTER ENGINEERING CORPORATION
Consultants

26705 Loma Verde, Mission Viejo, CA 92691
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*Licensed by the State of California
Board of Professional Engineers
And Land Surveyors*

*Approved by the City of Los Angeles
for testing slip resistance of flooring*

Flooring Slip Resistance Test Results

Client: **Acry-Tech Coatings**

Report date: 11/7/17

Flooring: **Soft Tread**

Page 1 of 1

Test no.: 1711-0723

Date tested: 11/7/17

ANSI B101.3 Dynamic Coefficient of Friction Test

The American National Standards Institute (ANSI) published the B101.3 American National Standard test for measuring dynamic coefficient of friction (DCOF) of common hard-surface floor materials in 2012.

**Average Dynamic Coefficient of Friction, as received, with SBR rubber slider:
Wet: 0.33**

Reference tile test value: 0.52 (expected range 0.49-0.57)
Individual test values wet: 0.36, 0.35, 0.33, 0.31, 0.31, 0.33

High dynamic coefficient of friction values indicate potentially good traction. The ANSI B101.3 standard recommends a **minimum** average DCOF of **0.43** for level floors (and **0.46 for ramps** up to 4.76 degrees) for high slip resistance and a "lower probability of slipping". Average DCOF between 0.30-0.42 is defined as "Acceptable" and an "Increased probability of slipping". Flooring with values in this range should "Monitor DCOF regularly and maintain cleanliness. Consider traction enhancing products and practices where applicable for intended use". Values of less than 0.30 have "low slip resistance" and a "higher probability of slipping." Slip resistance can be affected by factors such as floor coatings, abrasives, detergents, contamination, chemical treatments, and wear. Copies of the BOT-3000E test data printouts can be sent to the client upon request.

Respectfully submitted,
SOTTER ENGINEERING CORPORATION



J. George Sotter, P.E., Ph.D.
President



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Flooring Slip Resistance Test Results

Client: **Acry-Tech Coatings**

Report date: 11/7/17

Flooring: **Safe Tread**

Page 1 of 1

Test no.: 1711-0724

Date tested: 11/7/17

ANSI B101.3 Dynamic Coefficient of Friction Test

The American National Standards Institute (ANSI) published the B101.3 American National Standard test for measuring dynamic coefficient of friction (DCOF) of common hard-surface floor materials in 2012.

**Average Dynamic Coefficient of Friction, as received, with SBR rubber slider:
Wet: 0.59**

Reference tile test value: 0.52 (expected range 0.49-0.57)
Individual test values wet: 0.59, 0.59, 0.59, 0.59, 0.58, 0.57

High dynamic coefficient of friction values indicate potentially good traction. The ANSI B101.3 standard recommends a **minimum** average DCOF of **0.43** for level floors (and **0.46 for ramps** up to 4.76 degrees) for high slip resistance and a "lower probability of slipping". Average DCOF between 0.30-0.42 is defined as "Acceptable" and an "Increased probability of slipping". Flooring with values in this range should "Monitor DCOF regularly and maintain cleanliness. Consider traction enhancing products and practices where applicable for intended use". Values of less than 0.30 have "low slip resistance" and a "higher probability of slipping." Slip resistance can be affected by factors such as floor coatings, abrasives, detergents, contamination, chemical treatments, and wear. Copies of the BOT-3000E test data printouts can be sent to the client upon request.

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Flooring Slip Resistance Test Results

Client: **Acry-Tech Coatings**

Report date: 11/7/17

Flooring: **SATC Coarse**

Page 1 of 1

Test no.: 1711-0722

Date tested: 11/7/17

ANSI B101.3 Dynamic Coefficient of Friction Test

The American National Standards Institute (ANSI) published the B101.3 American National Standard test for measuring dynamic coefficient of friction (DCOF) of common hard-surface floor materials in 2012.

Average Dynamic Coefficient of Friction, as received, with SBR rubber slider: Wet: 0.62

Reference tile test value: 0.52 (expected range 0.49-0.57)

Individual test values wet: 0.64, 0.62, 0.61, 0.62, 0.61, 0.61

High dynamic coefficient of friction values indicate potentially good traction. The ANSI B101.3 standard recommends a **minimum** average DCOF of **0.43** for level floors (and **0.46 for ramps** up to 4.76 degrees) for high slip resistance and a "lower probability of slipping". Average DCOF between 0.30-0.42 is defined as "Acceptable" and an "Increased probability of slipping". Flooring with values in this range should "Monitor DCOF regularly and maintain cleanliness. Consider traction enhancing products and practices where applicable for intended use". Values of less than 0.30 have "low slip resistance" and a "higher probability of slipping." Slip resistance can be affected by factors such as floor coatings, abrasives, detergents, contamination, chemical treatments, and wear. Copies of the BOT-3000E test data printouts can be sent to the client upon request.

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Flooring Slip Resistance Test Results

Client: **Acry-Tech Coatings**

Report date: 11/7/17

Flooring: **SATC Fine**

Page 1 of 1

Test no.: 1711-0721

Date tested: 11/7/17

ANSI B101.3 Dynamic Coefficient of Friction Test

The American National Standards Institute (ANSI) published the B101.3 American National Standard test for measuring dynamic coefficient of friction (DCOF) of common hard-surface floor materials in 2012.

Average Dynamic Coefficient of Friction, as received, with SBR rubber slider: Wet: 0.42

Reference tile test value: 0.52 (expected range 0.49-0.57)

Individual test values wet: 0.46, 0.45, 0.43, 0.42, 0.39, 0.38

High dynamic coefficient of friction values indicate potentially good traction. The ANSI B101.3 standard recommends a **minimum** average DCOF of **0.43** for level floors (and **0.46 for ramps** up to 4.76 degrees) for high slip resistance and a “lower probability of slipping”. Average DCOF between 0.30-0.42 is defined as “Acceptable” and an “Increased probability of slipping”. Flooring with values in this range should “Monitor DCOF regularly and maintain cleanliness. Consider traction enhancing products and practices where applicable for intended use”. Values of less than 0.30 have “low slip resistance” and a “higher probability of slipping.” Slip resistance can be affected by factors such as floor coatings, abrasives, detergents, contamination, chemical treatments, and wear. Copies of the BOT-3000E test data printouts can be sent to the client upon request.

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Case History

The Golf Club of Georgia
6425 Windward Parkway
Alpharetta, GA 30005
Mr. Greg Railey – Maintenance Dept.
770-343-9070

Project Date: September 2003

Type of Project: Provide Non-Slip Surface To 3000' Of Course Walkways

Roof Size: 6,000 Square Feet

Product Used: Acry-Tech's "Soft Tread"

Additional Notes: Club regulations required golfers to use "soft spikes" rather than the older metal spikes. But, the wooden walkways proved treacherous with the new spikes. Greg Railey investigated Soft Tread and compared it to other non-slip coatings.

"We experimented with several other coatings that we found on the internet, but none of them gave us the result we wanted", noted Greg Railey. *"Also, most of the other products were either solvent based or were two component materials that we had to mix and measure and had a short pot life. We needed something that we could simply roll on and not have a difficult time applying out on the course."* Railey also noted that there was no waste when using the **SOFT TREAD** because pails could be resealed and cleanup was easy using only soap & water.

*"We haven't had any slips or falls since we installed the **SOFT TREAD** walkways on the bridges, and it seems to be wearing quite well",* Railey said. *"The members seem to like it, too."*

