

CORIAN® SOLID SURFACE SLIP RESISTANCE

SLIP RESISTANCE OF CORIAN® SOLID SURFACE

There are circumstances when Corian® Solid Surface may be used as a walking surface. When considering materials for walking surfaces, it is desirable to understand the slip resistance of the potential candidates.

The terms “slip resistance” and “coefficient of friction” are often used interchangeably. Historically one of the most commonly referenced methods for determining slip resistance was ASTM C1028, *Standard Test Method for Determining the Static Coefficient of Friction of Ceramic Tile and Other Like Surfaces by the Horizontal Dynamometer Pull Meter Method. Materials*. This Static Coefficient of Friction (SCOF) test was withdrawn by ASTM in 2014.

A different test measuring the Dynamic Coefficient of Friction (DCOF) has been adopted by the Tile Council of North America. Unlike the SCOF test, where the test begins with an object at rest, the DCOF test measures friction for an object already in motion. The DCOF AcuTestSM is specified in ANSI A137.1, *American National Standard Specifications for Ceramic Tile*, Section 9.6.1 for wet DCOF.

There is no correlation between the static coefficient of friction (SCOF) as measured by ASTM C1028 and the dynamic coefficient of friction (DCOF) as measured by ANSI A137.1 and the results from these tests should not be compared. The results reported are not a material property, but an evaluation of the material under known conditions and test methods. Wear, polishing, and/or cleaning agents may all affect DCOF in use.

ANSI A137.1 specifies a minimum wet DCOF of 0.42 for level indoor flooring, while also stating that DCOF should not be the only suitability criteria and sometimes higher values are recommended. While ANSI A137.1 is a specification for ceramic tile, it may be included as a project specification for other materials. At this time, there are no known national codes requiring specific slip resistance parameters.

Corian® Solid Surface was tested with a standard matte finish.

Corian® matte finish	wet DCOF 0.66
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REFERENCED DOCUMENTS

ANSI A137.1, *American National Standard Specifications for Ceramic Tile*

ASTM C1028, *Standard Test Method for Determining the Static Coefficient of Friction of Ceramic Tile and Other Like Surfaces by the Horizontal Dynamometer Pull Meter Method. Materials*

Corian® Solid Surface Fabrication/Installation Fundamentals - Finishing and Polishing (K 25298)

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