

## Product Specifications

### AcoustiCork RC500, RC1000

AcoustiCORK™ RC Series Products utilize Multi-Material composite technology to create a product with the multiple resonance frequencies, resulting in superior IIC (Impact Isolation Class) performance. The cork granules in the blend provide improved adhesion characteristics with thin-set mortars and other common flooring adhesives, compared to other rubber based materials on the market, ensuring more secure installations. Available in two different thicknesses to provide the performance required to meet or exceed building code and or developer or condominium associations requirements, with a variety of flooring selection, even when there is no sound rated ceiling assembly present, without creating excessive thickness and/or transition issues. It is compatible with virtually all types of hard surface finished floor materials.

#### ACOUSTICAL LABORATORY TESTING

The AcoustiCORK™ RC Series products have been tested at NGC Testing Services, an independent laboratory accredited by NVLAP and the US Dept of Commerce, for Impact Isolation Class (IIC) in accordance with ASTM E 492 and ASTM E 2179. In the ASTM E 2179-03 testing on a 6" concrete slab subfloor, with no suspended ceiling assembly is used. In this testing AcoustiCORK™ RC Series products have been shown to contribute up to 22 IIC points to the floor ceiling assembly. The table below shows the results of the testing for a 6" thick concrete slab subfloor, with the approximate total IIC value of the same floor assembly applied to 8" & 10" thick concrete slabs.

Solid Concrete Slab Thickness (With No Sound Rated Ceiling Assembly)	Baseline IIC* Rating of Concrete Slab Alone (With No Flooring or Sound Control system present)	Contributed Δ IIC Value of RC500 (5mm w/Glued Wood Floor Finish) Per ASTM E2179-03 Testing	Total IIC Rating for the 6" Concrete Slab & Glued Wood Flooring Per ASTM 492***
6"	28*	21	IIC 50
8"	30 to 32**	21	IIC 51 to 53**
10"	32 to 34**	21	IIC 53 to 55***
Solid Concrete Slab Thickness (With No Sound Rated Ceiling Assembly)	Baseline IIC* Rating of Concrete Slab Alone (With No Flooring or Sound Control system present)	Contributed Δ IIC Value of RC1000 (10mm w/Bonded Ceramic Tile) Per ASTM E2179-03 Testing	Total IIC Rating for the 6" Concrete Slab & Ceramic Tile Flooring Per ASTM 492***
6"	28*	22	IIC 50
8"	30 to 32**	22	IIC 52 to 54**
10"	32 to 34**	22	IIC 54 to 56***

\* Equalized rating for specimen as tested per ASTM E 2179-03 test method

\*\* Based on average IIC ratings reported. Varies regionally as to the density of the concrete and properties of the aggregates used in the concrete mix.

\*\*\* Estimated total IIC rating based on adding the Contributed ΔIIC Value of AcoustiCORK™ RC 500 or 1000 to the Baseline IIC of the 8" & 10" concrete slabs. Actual results may vary depending on concrete density and floor assembly details.

#### STRUCTURAL PERFORMANCE TESTING

AcoustiCORK™ RC Series products have been tested for structural performance in a direct bonded ceramic tile application in accordance with ASTM C-627 (Robinson Wheel Test) and received a Residential Rating. The AcoustiCORK™ RC Series products have passed the Shear Bond Testing requirements for bonding with thin-set mortars (ANSI 118.1 & .4) in accordance with ASTM C- 482- Modified Bond Strength (Membrane). The testing was performed by the Tile Council of North America.

#### ENVIRONMENTAL BENEFITS

AcoustiCORK™ RC Series products meet many of the criteria of the organizations that promote and support green building initiatives. The use of AcoustiCORK RC Series products in your project can help it qualify for credit points under the LEED™ Green Building Rating System in the following areas:

- MR 4 Recycled Content of total building materials (approx. 95% recycled content by weight)
- MR 5 Locally Manufactured Materials (within 500 miles of Trevor, WI)
- MR 6 Specifying rapidly renewable building materials for 5% of total building materials. (approx 20% by volume)
- EQ 4.1 Low Emitting Materials Adhesives & Sealants (Adhesives Specified meet SCAQMD Rule 1168)

#### INSTALLATION ADVANTAGES

The AcoustiCORK™ RC Series products have a surface area that is approximately 20% cork granules. The presence of the cork granules provides improved adhesion for thin-set mortars and other types of flooring adhesives.