

AcoustiCORK™ CRC950

High Performance Composite Sheet Sound Control Underlayment

For Ceramic Tile, Hardwood & Other Hard Surface Flooring Applications



Multi-Material Construction = Improved IIC Performance

Cork & Recycled Rubber Combined in a 9.5mm (3/8") Composite Sheet Designed for Optimal Impact Noise Attenuation Performance

Superior Bonding & Working Characteristics vs. Competitive Systems

Sound Control, Crack Suppression & Thermal Benefits in One Product



AMORIM
Amorim Cork Composites

AcoustiCORK PRODUCTS

Sound Control Underlayment & Crack Suppression Membrane

Amorim Cork Composites, Inc.

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AcoustiCORK™ CRC950

High Performance Composite Sheet Sound Control Underlayment

AcoustiCORK™CRC950 utilizes Multi-Material composite technology to create a product with several resonance frequencies. This results in superior IIC (Impact Isolation Class) performance than can be achieved with a single homogeneous layer of a similar thickness. The 100% Cork top layer provides the optimal bonding surface for the mortars and adhesives used for finished flooring products, while the Cork and Recycled Rubber granule blend layer provides improved resilience and impact sound attenuation. The composite construction provides the structural integrity required for direct bond ceramic tile installations. Only 9.5mm (3/8") thick, it provides the performance required to meet or exceed most building code, developer or condominium associations requirements, 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

AcoustiCORK™CRC950 was tested at NGC Testing Services, an independent testing laboratory accredited by NVLAP and the US Dept of Commerce, for Impact Isolation Class (IIC) in accordance with ASTM E 492-04 and ASTM E 989-89 and for Sound Transmission Class (STC) in accordance with ASTM E 90-04 and ASTM E413-04. The results of this testing are shown in the table below:

Solid Concrete Slab Thickness (With No Sound Rated Ceiling Assembly)	Finished Floor Assembly Description (No Sound Rated Ceiling Assembly)	Sound Transmission Class (STC) Rating for the Total Floor/Ceiling Assembly	Impact Isolation Class (IIC) Rating - 8" Concrete Slab Direct Bonded Ceramic Tile
8"	Direct Bonded Ceramic Tile	STC 56	IIC 52

FIELD ACOUSTICAL TESTING

AcoustiCORK™CRC950 has been tested in Field conditions in accordance with ASTM test methods E 1007 and E 989. This testing was performed by Octave Acoustique Acoustical Consultants of Saint-Laurent-de-l'Île-d'Orleans, Quebec, Canada.

Solid Concrete Slab Thickness (With No Ceiling Assembly)	Baseline FIIC Rating of Bare Concrete Subfloor	Flooring Assembly Description	Total FIIC Rating for 8" Slab & Ceramic Tile Flooring
8"	34	Direct Bonded Ceramic Tile	FIIC 56

STRUCTURAL PERFORMANCE TESTING

AcoustiCORK™CRC950 has 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 composition cork layer of AcoustiCORK™CRC950 has 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™CRC950 meets many of the criteria of the organizations that promote and support green building initiatives. The use of AcoustiCORK in your project can help it qualify for credit points under the LEED™ Green Building Rating System in the following areas:

- MR 4.1 5% Minimum Recycled Content of total building materials (approx. 85% recycled content by weight)
- MR 6 Specifying rapidly renewable building materials for 5% of total building materials.
- MR 7 The Use of a minimum of 50% of wood-based materials certified in accordance with the Forest Stewardship Council guidelines. (FSC Certified Content AcoustiCORK Available)
- EQ 4.1 Low Emitting Materials Adhesives & Sealants (Adhesives Specified meet SCAQMD Rule 1168)
- EQ 4.4 Composite wood or agri-fiber products must contain no added urea-formaldehyde resins.

INSTALLATION ADVANTAGES

AcoustiCORK™CRC950 is thin (3/8") light in weight and easy to install, yet it provides superior impact noise attenuation when compared to other direct bond systems of similar thickness in bonded tile applications. It is compatible with virtually all types of flooring adhesives, resulting in reduced labor and material costs and a lower total installed cost than many competitive systems.



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