



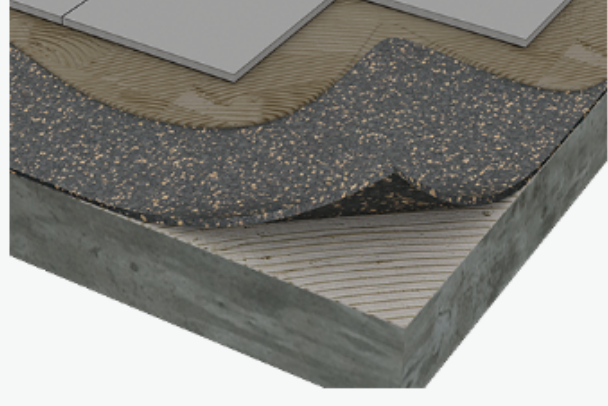
Impact  
Sound  
Control

# AcoustiCORK RCLT Series

For Hardwoods, Laminates  
Ceramic Tile & Natural Stone



**5mm AcoustiCORK RCLT 500 Shown With Glued Engineered Hardwood on a Concrete Subfloor**



**10mm AcoustiCORK RCLT 1000 Shown With Direct Bonded Ceramic Tile on a Concrete Subfloor**

Recycled Rubber, & High Density Foam With Cork Underlayment  
Superior Adhesion vs. 100% Rubber Products, Easier to Install  
Identical Physical Properties & Performance, But >20% Lighter



#### PRODUCT DESCRIPTION

Agglomerated Recycled Rubber, Foam & Cork Underlayment for Impact Sound Attenuation of All Types of Hard Surface Flooring Materials



#### ENVIRONMENTAL PROPERTIES

Recycled Content (LEED MR-4)  
85% + Recycled Content by Weight  
Rapidly Renewing Content (LEED MR-6)  
20% + Cork Granules by Volume



#### PHYSICAL AND MECHANICAL PROPERTIES (Per ASTM norms)

Density 35.5 lbs. ft<sup>3</sup>  
Shore Hardness 40  
Compression (100psi): < 30%  
Recovery (90 seconds): > 85%  
Shear Bond Test: 70+ PSI - 118.4 Mortar  
Robinson Testing: Residential & Light Commercial Ratings



#### ACOUSTICAL RESULTS

Tested for STC & IIC Ratings  
Per ASTM E 90, E 492 & E2179

Delta IIC 22 - 5mm/Glued Hardwood  
Delta IIC 22 - 10mm / Ceramic Tile



#### STANDARD PACKAGING

48" x 30' x 5mm Rolls - 71 lbs.  
48" x 15' x 10 mm Rolls - 71 lbs.  
Other Thicknesses &  
Roll Sizes Available



#### OTHER FEATURES & BENEFITS

Crack Suppression for Ceramic & Stone  
Naturally Resistant to Mold & Mildew  
Reduces In Room Step Sound  
Greater Comfort Under Foot



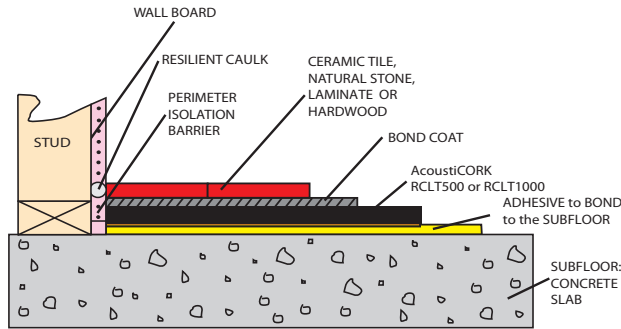
AMORIM  
Cork Composites

**AcoustiCORK®**

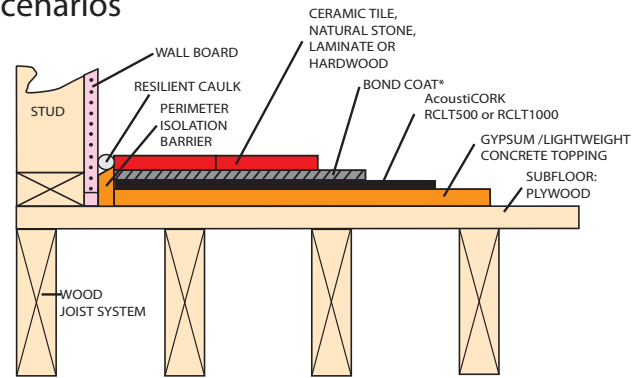
SOUND CONTROL UNDERLAYMENTS

# AcustiCORK RCLT Series Sound Control Underlayment

## Typical Installation Scenarios



AcustiCORK RCLT Series on a CONCRETE SUBFLOOR



AcustiCORK RCLT Series on WOOD FRAME & GYPSUM TOPPING

## General Installation Instructions

The following installation instructions are recommended by Amorim Cork Composites, but they are not intended as a definitive project specification. They are presented in an attempt to be used with recommended installation procedures of the flooring industry.

### Jobsite Conditions

Temperature > 55 °F / Room Relative Humidity < 75%.

All subfloor work should be structurally sound, clean and level. The moisture content of the subfloor should be no more than 3 to 5 lbs. per 1000 s/f in 24 hours as per Calcium Chloride testing.

### Perimeter Isolation

To maintain the acoustical integrity of the system, it is important that the finished flooring does not make direct contact with the perimeter walls, any fixed partitions or objects in the flooring area. The use of a perimeter isolation strip is recommended. For specific instructions, visit [www.acousticorkusa.com](http://www.acousticorkusa.com).

## Applying AcustiCORK RCLT Series Products to the Subfloor

Cut the material to the desired length and position it in the space to be covered. If the finished material is to be adhered, the underlayment must be glued down to the subfloor. If the final flooring is a floating floor, the underlayment does not have to be glued down. For glued down applications, pull back about one half of the length of the cut materials and using a properly sized notched trowel, apply one of the recommended adhesives to the subfloor. Place the RCLT Series material into the layer of adhesive applied and embed it into the adhesive. Repeat this process with the rest of the sheet. To ensure that the underlayment is fully embedded in the adhesive and that there are no entrapped air pockets. Roll it in both directions with a 75 or 100 lb. sectional floor roller. Proceed to cover the entire room area making sure that the underlayment sheets are tightly butted together, with no void or gaps.

## Applying Finished Flooring Materials

AcustiCORK RCLT Series underlayment can be used with almost any hard surface flooring product. There are multiple options for attachment of different flooring products. See our website for specific details.

### ACOUSTICAL LABORATORY TESTING

The AcustiCORK RCLT Series underlayment products have been tested at an independent acoustical testing 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 2179-0 testing on a 6" concrete slab subfloor, with no suspended ceiling assembly is used. In this testing AcustiCORK RCLT 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 RCLT500 (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*	22	IIC 51
8"	30 to 32**	22	IIC 52 to 54**
10"	32 to 34**	22	IIC 54 to 56***
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 RCLT1000 (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 AcustiCORK RCLT500 or 1000 to the Baseline IIC of the 8" & 10" concrete slabs.



**AMORIM**  
Cork Composites

Sound Control Underlayment & Crack Suppression Membrane  
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