

WECU installation



MATERIALS

CERAMIC TILE: Larger than 4"x4" tile
THIN SET (sanded): to meet ANSI A 118.4 for latex Portland Cement. All ceramic tile installation must conform to ANSI A108.

WECU: WECU Crackless+ for stress crack suppression under ceramic tile and sound control under laminate floors; WECU Soundless™ for sound control for concrete structure with suspended ceiling; WECU Soundless+™ for optimum sound control for concrete and wood joist structure with or without suspended ceiling.

ADHESIVE: for above grade, indoor installation use a ceramic tile mastic which conforms to ANSI A.136.1 TYPE I or a good quality indoor/outdoor carpet adhesive.

CERAMIC TILE: Set with sanded thin set mixed with minimum acrylic latex solids of 20% to insure strong bond. Be certain to follow manufacturers recommended curing time before using floor.

MARBLE: Install using a medium bed mortar mixed with acrylic latex or use the mud set method.

APPLICATION UNDER CERAMIC TILE, MARBLE & HARDWOOD FLOORING

1. Subfloor must be structurally sound, level and clean.
2. Spread out adhesive on subfloor with flat side of a appropriate trowel to achieve good bond width. Then, use the notched side for a good bond to WECU.
3. Install WECU, butting seams and up to walls snugly.
4. Roll over WECU with 75-100 lbs roller starting in the center and rolling to the outer edge to eliminate air bubbles.
5. Cover seams using 1" masking tape. Once WECU is securely adhered to the subfloor, proceed with the installation of selected flooring product.
6. For Sound Control: Leave a 1/4" gap between perimeter wall and flooring. Insert WECU expansion-joints or fill with acoustical sealant to prevent sound from being transmitted through the walls.

WECU UNDER RADIANT IN-FLOOR HEAT

When installing our WECU to the subfloor follow our installation instructions for application under ceramic tile, marble & hardwood flooring using latex modified thin set or a freeze/thaw stable adhesive. Installation instructions of the in-floor heating vary by manufacturer. WE Cork recommends that you follow the manufacturers installation instructions.

ADDITIONAL INSTRUCTIONS FOR HARDWOOD

1. For a glue-down floor, the WECU needs to be glued to the subfloor, with the wood flooring glued to the WECU. Choose floor manufacturer's recommended adhesive for application on WECU.
2. For a floating-floor system, the WECU can be loose laid over the subfloor, and the wood flooring floated above that.
3. For a nail-down floor, the WECU is loose laid over the subfloor. A double layer of 3/8" plywood, glued and screwed together at right angles is then laid over the WECU, and the wood floor is nailed into the plywood. To preserve the integrity of the sound rated floor system, never mechanically fasten the WECU with nails, screws or staples, since this will severely diminish the acoustical performance of the system.

WECU SILENTLY +

1. For use under floating wood and laminate floors loosely lay the WECU Silently + over the subfloor.
2. Where the WECU Silently + meets the wall the vapor barrier should be allowed to run up the wall and taped with a moisture resistant tape (duct tape).
3. Butt seams snugly throughout the installation, allow the plastic to overlap. Tape down plastic vapor barrier along seam using a moisture resistant tape (duct tape).
4. At the finishing wall allow the plastic vapor barrier to run up the wall and then tape. If necessary, trim back rubber portion of underlayment leaving only the plastic vapor barrier remaining prior to running up the wall.



WECU WE Cork Underlayment

The economical, effective and environmentally friendly solution for sound control and stress crack protection under ceramic tile and hardwood flooring.



WECU, available in rolls or sheets is clearly an installer's delight. Pronounced "we see you", WECU has become a popular solution for sound control and crack suppression. **WECU Soundless™ and Soundless+™** meet typical building codes and provide superior sound control. **WECU Crackless+** offers stress crack isolation under ceramic tile and marble as well as sound control under laminate flooring. **WECU Silently +** - A two in one product which offers both sound control as well as a vapor barrier under floating wood and laminate floors. **Silently +** is a low profile, easy to install rubber cork product with superior and economical sound control. **Silently +** is available in rolls of 3' x 50' x 2mm. For more information, call 800-666-CORK (2675).

WE Cork

16 KINGSTON ROAD, UNIT 6 EXETER, NH 03833

800-666-CORK (2675) TEL (603) 778-8558 FAX (603) 778-7052 www.wecork.com

WE Cork

WECU features & benefits

Track Record

Since its introduction in 1979, over a billion square feet of WECU has been sold. At the same time, it has earned the reputation of being the product with an outstanding track record for sound control and stress crack suppression.

Environmentally Friendly

Cork comes from the bark of a cork oak tree. A renewable resource, cork trees regenerate their bark every nine years.

Lightweight

Compared to rubber and other synthetic materials, cork underlayment weighs nearly 1/3 less.

Testing

WECU has undergone stringent laboratory tests, including the Robinson Test for load capacity, IIC, FIIC, Delta IIC and STC testing for acoustical performance, and boiling in hydrochloric acid testing for suitability on slabs with high acid content.

Density

WECU underlayment has the highest density on the market, which insures the integrity of ceramic/marble installations.

Thermal Insulation

Installed under ceramic tile, WECU underlayment will significantly inhibit the cold transfer from the subfloor. Installed under in-floor heat WECU will aid in prevention of heat loss thru the subfloor.

Acoustical Nature

Due to 200 million air cells per cubic inch, WECU Soundless™ offers extremely efficient sound reduction, while premium sound ratings are achieved with WECU Soundless+™. The high compression ratio of our cork quality prevents cracking of ceramic tile as well as the grout.

Binder

WECU's unique resin binder prevents the cracking and moisture problems normally associated with lower-density and polyurethane-binder underlayments.

Quality

WECU cannot be compared with any other cork product on the market. It is manufactured using a special process providing the unique features which have secured millions of square feet of failure free installations.

Availability

WECU underlayment is available through distribution locally, backed up by warehouse points in both the east and west coasts.

Service

WE Cork offers technical assistance by phone, fax, internet and website.

dimensions

WECU SOUNDLESS™

Dimensions: 4' x 100' x 6mm
Packaging: Roll/Sheets or
Dimensions: 3' x 4' x 6mm
Packaging: 175 sheets/pallet

WECU SOUNDLESS +™

Dimensions: 3' x 4' x 1/2"
Packaging: 150 sheets/pallet

WECU CRACKLESS +

Dimensions: 3' x 50' x 3/64"
Packaging: Roll

WECU SILENTLY +

Dimensions: 3' x 50' x 2mm
Packaging: Roll

Other sizes available per request

WECU data

WECU meets the following performance requirements:

RECOVERY Comprehensive recovery shall be no less than 97% with a load no less than 50 psi and no greater than 1500 psi.

EXPANSION FROM MOISTURE The test specimen after being immersed in boiling water for 1 hr. shall have absorbed no more than 2% moisture.

BOILING IN HYDROCHLORIC ACID

The test specimen shall be examined immediately after the end of the boiling period and shall be rejected for any of the following evidences of disintegration: (1) Particles of cork dislodged during the boiling period. (2) specimen lacks resiliency, is very friable, and is easily broken into pieces, or (3) surface specimen appears porous and particles of cork are easily dislodged by rubbing with fingers.

WEATHERING TEST Test specimen shall show no evidence of disintegration when subjected to the weathering test specified in Section 7.

THERMAL INSULATION (WECU Soundless™) .38 "K" Factor + BTU/HR sq/ft/F/in. "R" Factor = 2.6

ROBINSON FLOOR TEST Test performed per ASTM C-627 and using TCA guidelines for performance levels, WECU Soundless +™ under 8" x 8" quarry tile achieved a residential rating.

AASHO Designation: M-153-70
(ASTM Designation D-1752-67)

*Delta IIC represents the calculated improvement in IIC when the IIC of the reference subfloor is subtracted from the calculated levels of the complete test result(s).

WECU IIC ON A 6" CONCRETE SLAB

TEST REFERENCE	SUBFLOOR	Susp. Ceiling	WECU	Floor Covering	IIC
J20011278-001	6" concrete	Yes	Soundless™ (6mm)	Ceramic Tile	56
CK8511.02A	6" concrete	Yes	Soundless™ (6mm)	Ceramic Tile	56
J200114367-001	6" concrete	Yes	Soundless +™ (1/2")	Ceramic Tile	60
CK214.0211	6" concrete	No	Soundless +™ (1/2")	Ceramic Tile	53
CK214.0211	6" concrete	Yes	Soundless +™ (1/2")	Ceramic Tile	63
J20011278-001	6" concrete	Yes	Soundless™ (6mm)	Laminate	59
3013567-001A	6" concrete	Yes	Crackless +™ (3/64")	Laminate	58
3026189-001A	6" concrete	No	Soundless™ (6mm)	Laminate	50
J20011278-001	6" concrete	Yes	Soundless™ (6mm)	Wood	59
I-20580-0228	6" concrete	Yes	Soundless™ (6mm)	Wood	59
I-20581-0228	6" concrete	No	Soundless™ (6mm)	Wood	52

WECU IIC ON A WOOD JOIST & LIGHT WEIGHT CONCRETE SYSTEM

TEST REFERENCE	SUBFLOOR	Susp. Ceiling	WECU	Floor Covering	IIC
RAL-TL91-95 & RAL-IN91-3	1 1/2" light weight concrete on 5/8" plywood	No	Soundless +™ (1/2")	Ceramic Tile	52
RAL-TL91-89 & RAL-IN91-4	1 1/2" light weight concrete on 5/8" plywood	Yes	Soundless +™ (1/2")	Ceramic Tile	56
3013567-002A	1 1/2" gypcrete on 5/8" plywood	No	Soundless™ (6mm)	Wood	51
3138449CRT-002B	1 1/2" lightweight concrete on 5/8" plywood	No	Silently + (2mm)	Laminate	55

WECU DELTA IIC* ON A 6" CONCRETE SLAB - NO SUSPENDED CEILING

TEST REFERENCE	SUBFLOOR	WECU	Floor Covering	Delta IIC
3026189-004	6" concrete	Soundless™ (6mm)	Ceramic Tile	19
3026189-005	6" concrete	Soundless +™ (1/2")	Ceramic Tile	20
3026189-001B	6" concrete	WECU (3.2mm)	Laminate	26
3026189-002A	6" concrete	Soundless™ (6mm)	Wood	20
3026189-002C	6" concrete	Soundless +™ (1/2")	Wood	21

WECU FIELD TESTING DATA (FIIC)

TEST REFERENCE	SUBFLOOR	Susp. Ceiling	WECU	Floor Covering	IIC
Cityfront Terrace	8" concrete	No	Soundless +™ (1/2")	Marble Tile	50
Comstock Apts.	6" concrete	No	Soundless +™ (1/2")	Hardwood	59
The Meridian	6" concrete	Yes	Soundless +™ (1/2")	Marble Tile	67
850 E. Ocean Blvd.	8" concrete	No	WECU (1/8")	Laminate	59
850 E. Ocean Blvd.	8" concrete	No	WECU (6mm)	Hardwood	56