

MULTI-PURPOSE FLOORING UNDERLAYMENT THAT INSULATES, DEADENS SOUND & SUPPRESSES LATERAL CRACKS

UltraLayer[™] is a unique, earth-friendly, insulating underlayment that helps absorb impact sound so it won't transfer to lower level rooms; suppresses the effect of concrete sub-floor cracking to protect ceramic tile from potential damage; and insulates floors to help keep them warm in the winter and cool in the summer. The 0.10" thickness of UltraLayer also helps smooth out imperfections in substrates prior to the installation of a hard-surface floor covering.

A D V A N T A G E S

• Sound absorption.

UltraLayer's filaments are randomly air-laid creating a capillary affect to cushion the floor, absorb sound.

Impact Insulation Class (IIC) = 73* Sound Transmission Class (STC) = 66*

*8" Concrete with Ceiling Assembly

• Smoothing out minor sub-floor imperfections.

UltraLayer is firm enough (density = 25.5 lbs/ft³; compression resistance @ 25% = 145.4 psi) to support the overlaying floor, but flexible enough to form around sub-floor surface roughness that may otherwise cause tile to "rock" or lay unevenly.

Adding insulation value.

UltraLayer will add a thermal "break" to the flooring assembly with an r-value of approximately 0.42.

Lateral Crack Suppression.

UltraLayer is warranted for a period of 15 years to suppress the transfer of lateral cracking of up to 1/4" from concrete subfloors to the covered flooring material.

Mold Resistant.

Made from a unique blend of recycled fibers that are treated with an anti-microbial agent that does not promote mold growth if the underlayment should ever encounter any moisture.

Multipurpose.

UltraLayer can be used under a variety of hard-surface floors, which includes: ceramic, porcelain, or natural stone tiles and glued-down or nailed down engineered wood floors.



ENVIRONMENTAL ATTRIBUTES

- UltraLayer is certified by Scientific Certifications Systems (SCS) to contain **100%** post industrial/pre-consumer fibers. UltraLayer is LEED™ compliant and will contribute to MRc4.1-4.2 credits.
- · Passed Section 01350 for CHPS and Standard Office
- · CHPS-listed product
- Can contribute to LEED MR Credit 4.1-4.2

LIMITATIONS

- All sub-floor assemblies should be tested for moisture vapor emission rates by utilizing anhydrous calcium chloride test kits for concrete or a certified moisture meter for ceramic. Do not install flooring material when in excess of flooring manufacturers recommendations for moisture vapor emissions.
- UltraLayer is recommended for Type II ceramic installations only. Do not use in shower pan applications or areas exposed to excessive moisture.





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APPROVED SUBSTRATES

- Dry, completely cured concrete (at least 28 days old)
- Cement backer units (CBU)
- Cementitious screeds, leveling coats and mortar beds
- · Waterproofing and crack-isolation membranes
- Properly prepared plywood for residential floors and in dry areas only.
- Cement terrazzo floors
- Vinyl composition tile (VCT) or non-cushioned sheet vinyl provided the existing floor covering is still adhered tightly to a level, even and structurally solid subfloor, and is free from excessive wax, grease or sealants

PACKAGING

Packaging

UltraLayer is available in $3' \times 33.4'$ (100 sq ft) do-it-yourself size rolls and $6' \times 60'$ (360 sq ft) contractor size rolls.







*Refer to the UltraLayer Installation Guidelines document for complete installation details.

TECHNICAL DATA

Physical Properties

Blended synthetic fibers.	Certified 95% post-industrial recycled content.
Waight	20 15 on / on vid (2 25 on / on #)

weight 30. 15 oz /	sq ya (3.35 oz / sq π)
Thickness	0.10"
Density	25.5 lbs / ft ³
Compression Resistance @ 25%	145.4 psi
Compression Resistance @ 50% e	xceeds machine limit
Breaking Strength Length 78	.4 lbs; Width 63.3 lbs
Compression Set @ 25%	20.7%
R-Value (@0.10") 0.42 hr-ft ²	² -degF/Btu (4.2/ inch)
Flammability	

Meets or exceeds Federal Flammability Standard: 1-70 (Pill Test) and MVSS 302.

Volatile Organic Compounds (VOC)

Tested for 81 different off-gas compounds in accordance with CA 01350. Passed to the level of Collaborative for High Performance Schools (CHPS) and Office Spaces.

Performance Level

Robinson floor test over 3/4" plywood subfloor with residential porcelain tile, latex modified thinset mortar, and latex modified grout resulted in "Light Commercial" rating for use in "Office space, reception areas, kitchens and bathrooms".

Sound Properties

Impact Sound Transmission. The method is designed to measure the impact sound transmission performance of a floor-ceiling assembly in a controlled laboratory environment.

<u>Delta Sound Transmission.</u> An impact sound test specifically designed to test flooring underlayments

IIC	Flooring	Sub-floor
73 (IIC)	Ceramic Tile, thin-set and grout over UltraLayer	8" concrete (with ceiling assembly)
50 (IIC)	Ceramic Tile, thin-set and grout over UltraLayer	6" concrete (no ceiling assembly)
21 (Delta)*	Ceramic Tile, thin- set and grout over UltraLayer	6" concrete (no ceiling assembly)
19 (Delta)	Ceramic Tile, thin- set and grout over UltraLayer	6" concrete (no ceiling assembly)

<u>Sound Transmission Loss.</u> The sound-insulating property of a partition element is expressed in terms of the sound transmission loss.

STC	Flooring	Sub-floor
66 (STC)	Ceramic Tile, thin- set and grout over UltraLayer	8" concrete (with ceiling assembly)
54 (STC)	Ceramic Tile, thin- set and grout over UltraLayer	8" concrete (with ceiling assembly)