

Insulayment®

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



Think Green!

CERTIFIED RECYCLED AND
HEALTHIER INDOOR AIR QUALITY

Insulayment 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 flooring from potential plank gapping; and insulates floors to help keep them warm in the winter and cool in the summer. The 0.11" thickness of Insulayment also helps smooth out imperfections in substrates prior to the installation of a hard-surface floor covering.



ADVANTAGES

- **Sound absorption.**
Insulayment's filaments are randomly air-laid creating a capillary affect to cushion the floor, absorb sound, and help make laminate floors sound more like real wood.
Field Impact Insulation Class (F-IIC) = 60
Impact Insulation Class (IIC) = 52
Sound Transmission Class (STC) = 53
- **Smoothing out minor sub-floor imperfections.**
Insulayment is firm enough (density = 18.9 lbs/ft³; compression resistance @ 25% = 23.2 psi) to support the overlaying floor, but flexible enough to form around sub-floor surface roughness that may otherwise cause laminate panels to "rock" or lay unevenly.
- **Adding insulation value.**
Insulayment will add a thermal "break" to the flooring assembly with an r-value of approximately .50.
- **Approved for use over in-floor heat systems.**
The patented process used to make Insulayment® creates a three dimensional fiber matrix that allows heat to permeate evenly while helping to protect the floor covering material from thermal shock.
- **Multipurpose.**
Insulayment can be used under all types of industry approved subfloors.

ENVIRONMENTAL ATTRIBUTES

- Insulayment is certified by Scientific Certifications Systems (SCS) to contain **100%** post industrial/pre-consumer fibers. Insulayment is LEED™ compliant and will contribute to MRC4.1-4.2 credits.
- Passed Section 01350 for CHPS and Standard Office
- CHPS-listed product
- Makes contributes 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 wood. Do not install flooring material when in excess of flooring manufacturers recommendations for moisture vapor emissions.



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Insulayment®



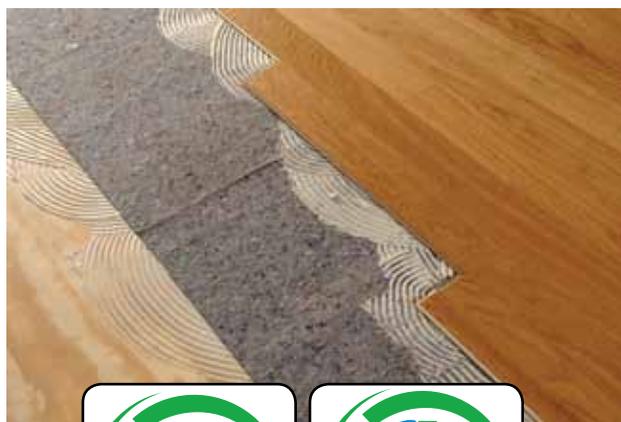
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APPROVED SUBSTRATES

- Dry, completely cured concrete (at least 28 days old)
- Concrete and masonry blocks
- Cement backer units (CBU)
- Cementitious screeds, leveling coats and mortar beds
- Waterproofing and crack-isolation membranes
- Double layered exterior-grade plywood 1 1/4" (32 mm) total thickness, 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

INSTALLATION

Refer to the Insulayment Installation Guidelines document for complete installation details.



TECHNICAL DATA

Physical Properties

Blended synthetic fibers.

Weight 25 oz / sq yd (2.78 oz / sq ft)

Thickness 0.11" +/- 0.02"

Density 18.9 lbs / ft³

Compression Resistance @ 25% 23.2 psi

Compression Resistance @ 30% 37.0 psi

Compression Resistance @ 50% 219.6 psi

Breaking Strength Length 78.4 lbs; Width 63.3 lbs

Compression Set @ 25% 18.8%

R-Value (@0.125") 0.52 hr-ft²-degF/Btu (4.19/ inch)

Flammability

Meets or exceeds Federal Flammability Standard:

1-70 (Pill Test) and ASTM E84 Steiner Tunnel Test.

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.

Product Emissions

Passed the most rigorous emissions test: Section 01350 for CHPS and Standard Office

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.

IIC	Flooring	Sub-floor
60 (Field IIC)	3/8" Engineered Wood over Insulayment	8" concrete (no ceiling assembly)

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

STC	Flooring	Sub-floor
53	3/8" Engineered Wood over Insulayment	8" concrete (no ceiling assembly)

Packaging

Insulayment is available in 3' x 33.4' (100 sq ft) do-it-yourself size rolls and 6' x 60' (360 sq ft) contractor size rolls.



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BETTER BOND:

Insulayment provides excellent bond strength with adhesives and thin set mortars. For glued wood flooring, simply adhere *Insulayment* to an industry-approved*, structurally solid concrete or wood subfloor and then adhere the wood flooring directly to it.

BETTER SOUND:

The randomly air-laid filaments create a capillary affect to absorb impact and airborne sound. The 0.11" thickness helps smooth out little subfloor imperfections. *Insulayment* insulates the transfer of noise to lower level rooms, and has the following acoustical ratings: FIC 60, STC 52. These sound ratings meet or exceed most building code requirements for multiple family dwellings.

*Installations must follow requirements and guidelines and requirements set forth by the National Hardwood Flooring Association.



REMODELING:

Insulayment can eliminate some of the time-consuming and potentially hazardous "tear out" of old flooring associated with remodeling. As long as the existing floor covering is still adhered tightly, and the subfloor is level, non-flexible and structurally solid according to industry standards*, *Insulayment* can be glued directly to non-cushioned sheet vinyl. Thus eliminating the potential problem of exposing harmful asbestos elements. Flooring surfaces must be clean and wax free.

BENEFITS:

The insulating value of *Insulayment* helps keep floors warm in the winter, and cool in the summer. *Insulayment* is non-allergenic. Our high-temperature manufacturing process kills bacteria and fungus, while an antimicrobial additive retards mold growth.

The elasticity of *Insulayment* resists the transferring of concrete subfloor cracks through to the floor covering above.

