



Premium Acoustical Underlayment and Moisture Barrier

Designed specifically to be used with attached pad vinyl, laminate, and wood flooring.

FEATURES AND BENEFITS

WARRANTY: The only underlayment approved to be used under pad attached flooring at Floor and Décor.

STRENGTH: Cross-Linked polypropylene foam provides structural stability and compressive strength for long term performance.

MOISTURE PROTECTION: The closed cells of the foam create a built-in moisture barrier without the need for adding an additional plastic film.

THERMAL PERFORMANCE: Improves the R-Value of the flooring system by 15% compared to installations without underlayment.

LIGHTWEIGHT: Easy to handle rolls for small and big projects alike. 10X times lighter than other high density underlayments.

SAFE: The specialized formula provides resistance to the growth of mold and mildew without the need to add antimicrobial chemicals.

AIR QUALITY: Surpasses CA 01350 requirements for indoor air quality.



SOUND
REDUCTION



THERMAL
BARRIER



MOISTURE
PROTECTION

APPLICATIONS

For use in Floating Floor installations.



PRODUCT DIMENSIONS AND VARIATIONS

Coverage	Weight	Width	Length	Thickness
100 Sq. Ft.	2 lb.	4 ft.	25 ft.	1.1mm
300 Sq. Ft.	6 lb.	4 ft.	75 ft.	1.1 mm
600 Sq. Ft.	12 lb.	6 ft.	100 ft.	1.1 mm

TECHNICAL SPECIFICATIONS

MATERIAL: Closed cell, cross linked polypropylene foam.

Specification	Value
Thickness	1.1mm
Density	6 lb/ft ³
Weight	0.32 oz/sq. ft.
Thermal performance	R-Value: 0.17; as per ASTM C518
Water Vapor Transmission Rate (WVTR)	0.2 lbs per 1000 sq. ft./24hrs; as per ASTM E96
Flammability Classification	Class 1 (or A); as per IBC, ASTM E84
VOC Emissions	Compliant; as per CA 01350

SENTINEL PROTECT PLUS UNDERLAYMENT ACOUSTICAL LABORATORY TESTS

Flooring Type	Subfloor	Ceiling Assembly	IIC	STC
Duralux Performance	6" concrete	Yes	69	62
NuCore	6" concrete	Yes	66	62
Optimax	6" concrete	Yes	67	61

Impact Insulation Class (IIC) measures a floor/ceiling assembly's resistance to the transmission of impact sound, such as foot-fall or a chair dragging on the floor.

Sound Transmission Class (STC) rates a partition's or material's ability to block airborne sound, such as people having a conversation, music or television sound.

ΔIIC (Delta IIC) measures the effectiveness of the floor coverings in reducing impact sound transmission when compared to standard concrete floors. Flooring assemblies using Sentinel Protect Plus underlayment can reach a Delta IIC of 22 dB.