

All-Coated Heating Film

Far-infrared radiant heating · Multi-layer construction

PREMIUM GRADE

40-YEAR WARRANTY

PRODUCT OVERVIEW

All Coated Film is designed for semi-permanent use, with a service life intended to be comparable to that of a typical building. Under normal conditions of use, the need to remove finished flooring for repair or replacement of the heating system can be significantly reduced.

Achieving long-term durability requires both robust mechanical protection against external impact and reliable resistance to moisture ingress from the floor structure. Over time, moisture can gradually permeate through the subfloor — once inside, it may oxidize the internal copper conductors, potentially compromising electrical performance and long-term operational stability.

To address this, a special adhesive barrier layer has been added to prevent moisture penetration. PET layers are applied to both top and bottom surfaces to enhance mechanical strength, durability, and overall structural integrity.

LAYER STRUCTURE

PET Film (outer)		Design printing surface
PET Film		Protective insulation
Carbon layer		Resistive heating element
Silver busbar		Current distribution
Copper busbar		Primary conductor
Adhesive barrier		Moisture penetration barrier
PET Film (inner)		Base substrate
Color printing		Branding & identification

KEY BENEFITS

01 Uniform and comfortable heating	02 Easy and cost-effective installation	03 Space-saving design
04 Fast heat-up response	05 Room-by-room temperature control	06 Low maintenance and silent operation

COMPATIBLE FLOORING MATERIALS

Laminate

Engineered wood

Vinyl

SPC

Tile

Carpet

INDUSTRY-LEADING ASSURANCE

40-Year Warranty

Backed by a 100-year service life — built to last as long as the building itself.

PREMIUM GRADE

100-year product lifespan

TECHNICAL SPECIFICATIONS

Heating technology	Far-infrared radiation
Voltage	110V / 220V AC
Power density	80–220 W/m ²
IR wavelength	3–1,000 μm
Product lifespan	100 years
Warranty	40 years