

## Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

[manuals.plus](#) /

› [Mi-Heat](#) /

› [Mi-Heat Premium Heating Film 2.5m \(1.25m<sup>2</sup>\) - 130 W/m<sup>2</sup> - 50cm Width - Underfloor Heating User Manual](#)

## Mi-Heat 239-004

# Mi-Heat Premium Heating Film User Manual

Model: 239-004 | Brand: Mi-Heat

## 1. INTRODUCTION

Thank you for choosing the Mi-Heat Premium Heating Film. This electric underfloor heating system is designed to provide comfortable and efficient warmth for your living spaces. This manual contains important information regarding the safe installation, operation, and maintenance of your heating film. Please read it thoroughly before installation and retain it for future reference.

## 2. SAFETY INSTRUCTIONS

- Installation must be carried out by a qualified electrician in accordance with local electrical codes and regulations.
- Ensure the main power supply is disconnected before commencing any installation or maintenance work.
- Do not cut the heating film in areas other than designated cutting lines.
- Avoid damaging the heating film during installation. Any damage must be repaired by a professional before connecting to power.
- The heating film is not suitable for use in wet rooms or areas with high humidity unless specifically protected and approved for such environments.
- Do not place heavy or sharp objects directly on the heating film that could cause damage.
- Ensure proper insulation is used beneath the heating film to prevent heat loss downwards.
- The heating film must be connected to a suitable thermostat for temperature control and safety.

## 3. PRODUCT OVERVIEW AND FEATURES

The Mi-Heat Premium Heating Film is a highly efficient and robust electric underfloor heating solution. It features advanced technology and a durable construction for reliable performance.



Figure 3.1: Mi-Heat Premium Heating Film, unrolled with connection wires.

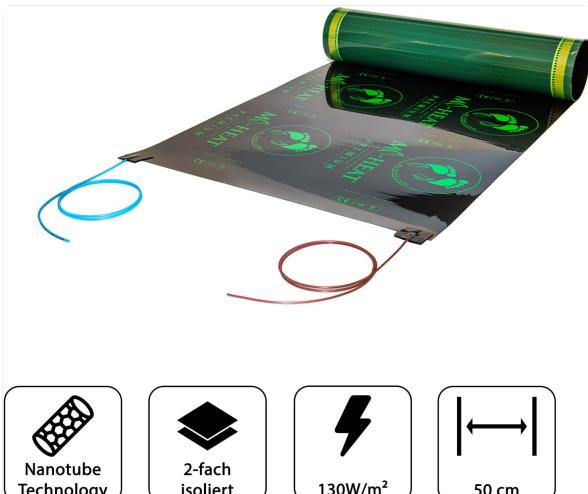
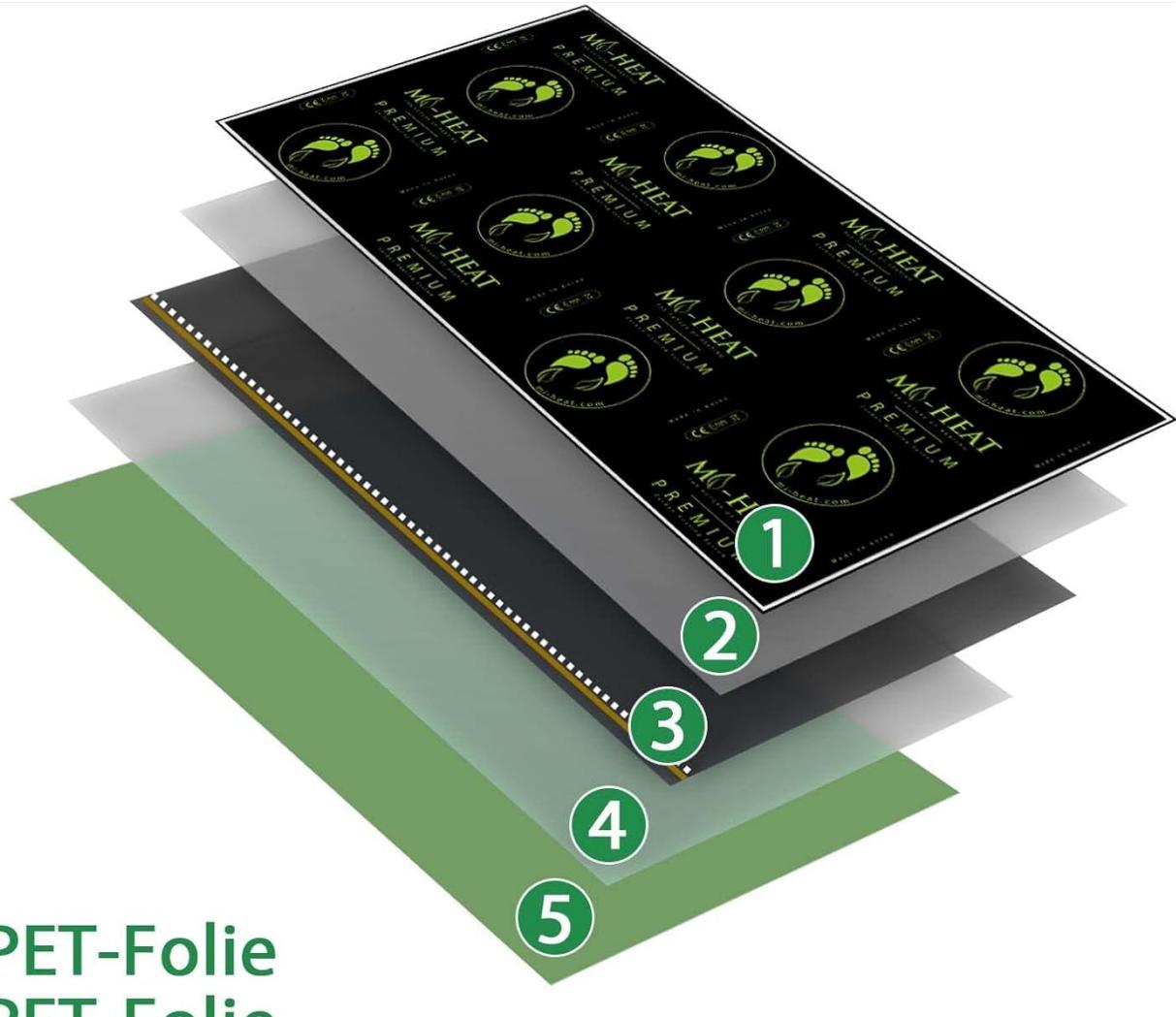


Figure 3.2: Key features of the Mi-Heat Premium Heating Film, including Nanotube Technology, double insulation, 130W/m<sup>2</sup> power output, and 50cm width.

## Key Features:

- **CNT (Carbon Nanotube) Technology:** Utilizes a specially developed and patented Carbon Nanotube technology for enhanced efficiency, operational safety, and extreme resistance. This differs from standard PTC (Positive Temperature Coefficient) self-regulating films.
- **Double Insulation:** Constructed with five layers and four main components, ensuring extreme robustness and resistance. High-quality raw materials and lamination contribute to its durability.
- **High Heating Surface Area:** Features an active heating surface of 86%, optimizing the available film area and narrow edge zones for uniform surface temperature and rapid heating.
- **Low Installation Height:** With a thickness of only 0.49 mm, it allows for minimal floor height increase, making it ideal for renovations.
- **Versatile Application:** Can be used as supplementary or primary heating for floors, walls, and ceilings (excluding wet rooms).
- **High Temperature Resistance:** Resistant to temperatures up to 80 °C.



1. PET-Folie
2. PET-Folie
3. CNT-Heizelement
4. PET-Folie
5. PET-Folie

Figure 3.3: Layer diagram of the heating film, illustrating its five-layer construction for double insulation and durability.

The film's construction includes multiple PET layers and a CNT heating element, ensuring uniform heat distribution and long-term reliability.

## 4. SETUP AND INSTALLATION

### 4.1 Preparation

- Ensure the subfloor is clean, dry, and level.
- Install appropriate insulation material (e.g., XPS insulation boards) directly on the subfloor to minimize heat loss.
- Plan the layout of the heating film, ensuring it covers the desired heating area without overlapping.
- Identify the location for the thermostat and route the necessary electrical wiring.

### 4.2 Laying the Heating Film

The Mi-Heat Premium Heating Film is designed for floating installation under various floor coverings.

1. Unroll the heating film onto the prepared insulated subfloor according to your layout plan.

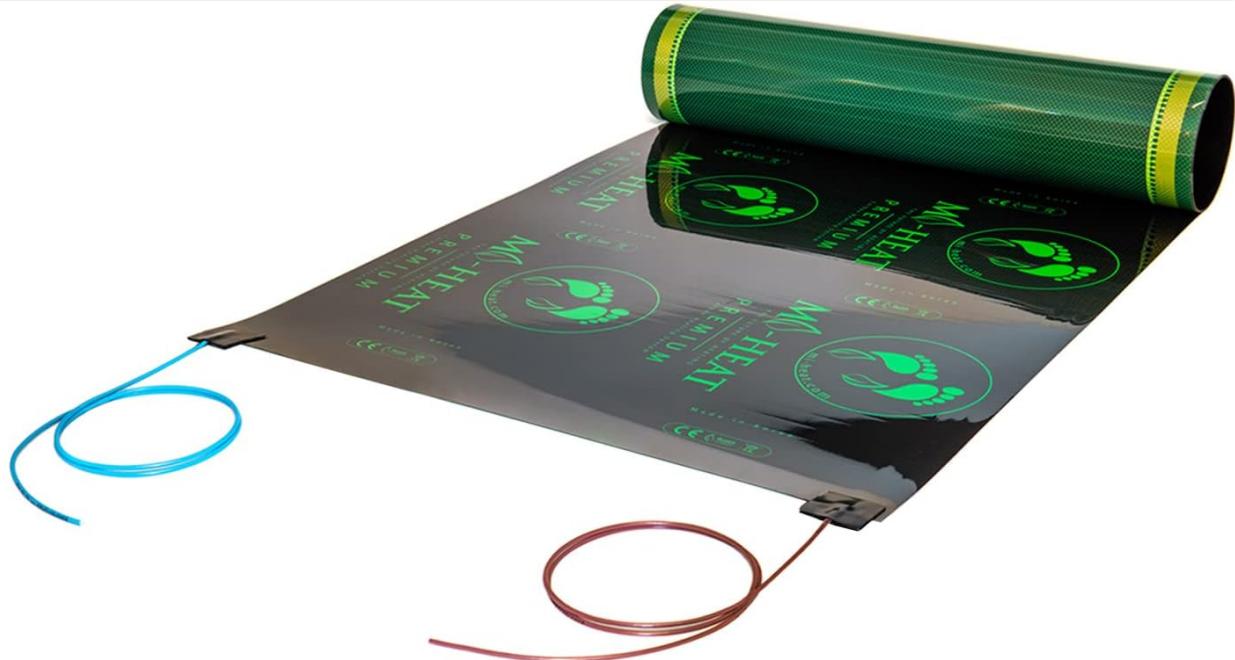
2. Ensure the film lies flat and smooth, without creases or folds.
3. Secure the film in place using adhesive tape if necessary, to prevent movement during subsequent steps.
4. Connect the electrical wires to the designated copper strips on the heating film using appropriate connection clamps and insulation. This step requires specialized tools and expertise.
5. Install the floor temperature sensor (if applicable) between two heating film strips, ensuring it is centered and not directly on a heating element.



Figure 4.1: Example of heating film installation under a floating floor covering.

### 4.3 Floor Covering Suitability

The heating film is suitable for installation under various floating floor coverings. Always ensure your chosen floor covering is approved for use with underfloor heating systems by its manufacturer.



Hinweis: Bodenbelag muss für Fußboden-Heizung freigegeben sein! | Note: Floor covering must be approved for underfloor heating!

Figure 4.2: The heating film is suitable for laminate, parquet, and carpet floor coverings, provided they are approved for underfloor heating.

## 4.4 Electrical Connection

Connect the heating film to a suitable thermostat and then to the main power supply. This connection must be performed by a certified electrician. Ensure all connections are secure and properly insulated.

## 5. OPERATING INSTRUCTIONS

The Mi-Heat Premium Heating Film is controlled by an external thermostat (not included). The thermostat regulates the floor temperature to your desired setting.

### 5.1 Thermostat Operation

- Refer to your thermostat's specific instruction manual for detailed operating procedures.
- Set the desired room or floor temperature on the thermostat.
- The thermostat will automatically switch the heating film on and off to maintain the set temperature.
- Many thermostats offer programming options for different times of day or week to optimize energy consumption.



Figure 5.1: Example of a compatible digital thermostat.



Figure 5.2: Another example of a compatible digital thermostat.



Figure 5.3: A third example of a compatible digital thermostat.



Figure 5.4: A fourth example of a compatible digital thermostat.

These images illustrate various types of thermostats that can be used to control the Mi-Heat Premium Heating Film. The specific thermostat model and its features will determine the exact operating instructions.

## 6. MAINTENANCE

---

The Mi-Heat Premium Heating Film is designed to be maintenance-free once installed correctly. However, general care for your floor covering is important.

- Avoid spilling liquids that could seep through the floor covering and potentially affect the heating film or electrical connections.
- Do not use abrasive cleaners or harsh chemicals on your floor covering that could damage it or the underlying heating system.
- If any issues arise, such as uneven heating or system failure, contact a qualified electrician for inspection and repair. Do not attempt to repair the heating film yourself.

## 7. TROUBLESHOOTING

---

If you experience problems with your Mi-Heat Premium Heating Film, consider the following common issues:

- **No Heat:**
  - Check if the thermostat is set to a heating mode and the desired temperature is above the current room temperature.
  - Verify that the circuit breaker for the heating system has not tripped.
  - Ensure all electrical connections are secure (this should be checked by a qualified electrician).
- **Uneven Heating:**
  - This could indicate an issue with the film itself or the temperature sensor. Contact a professional for diagnosis.
  - Ensure no objects are blocking heat distribution on the floor surface.
- **System Overheating:**
  - Immediately turn off the power supply.
  - This is a serious issue and requires immediate professional inspection. Do not attempt to operate the system until it has been checked.

For any issues beyond basic thermostat adjustments, it is strongly recommended to contact a qualified electrician or the product support for assistance.

## 8. SPECIFICATIONS

Specification	Value
Brand	Mi-Heat
Model Number	239-004
Power Output	130 W/m <sup>2</sup>
Film Width	50 cm
Film Length (for 1.25m <sup>2</sup> )	2.5 m
Mounting Height	0.49 mm
Max. Temperature Resistance	80 °C
Technology	CNT (Carbon Nanotube)
Insulation	Double insulated (5 layers)
Active Heating Surface	86%
Batteries Required	No
ASIN	B07C44P582

## 9. WARRANTY AND SUPPORT

Information regarding the specific warranty period and support contact details for the Mi-Heat Premium Heating Film is not available in the provided product data. Please refer to your purchase documentation or contact the seller, infrarotfussboden-de, for warranty claims and technical support.

For general inquiries or professional assistance, it is recommended to consult a certified electrician.