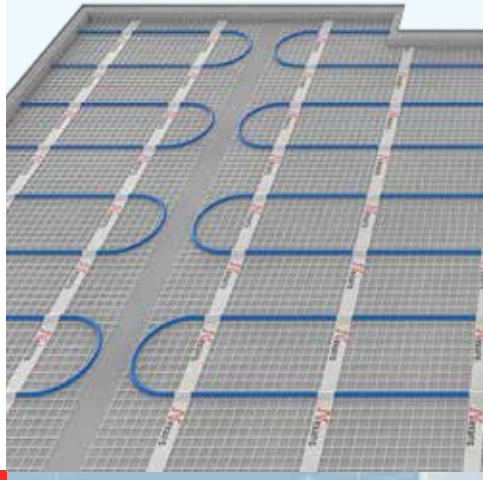
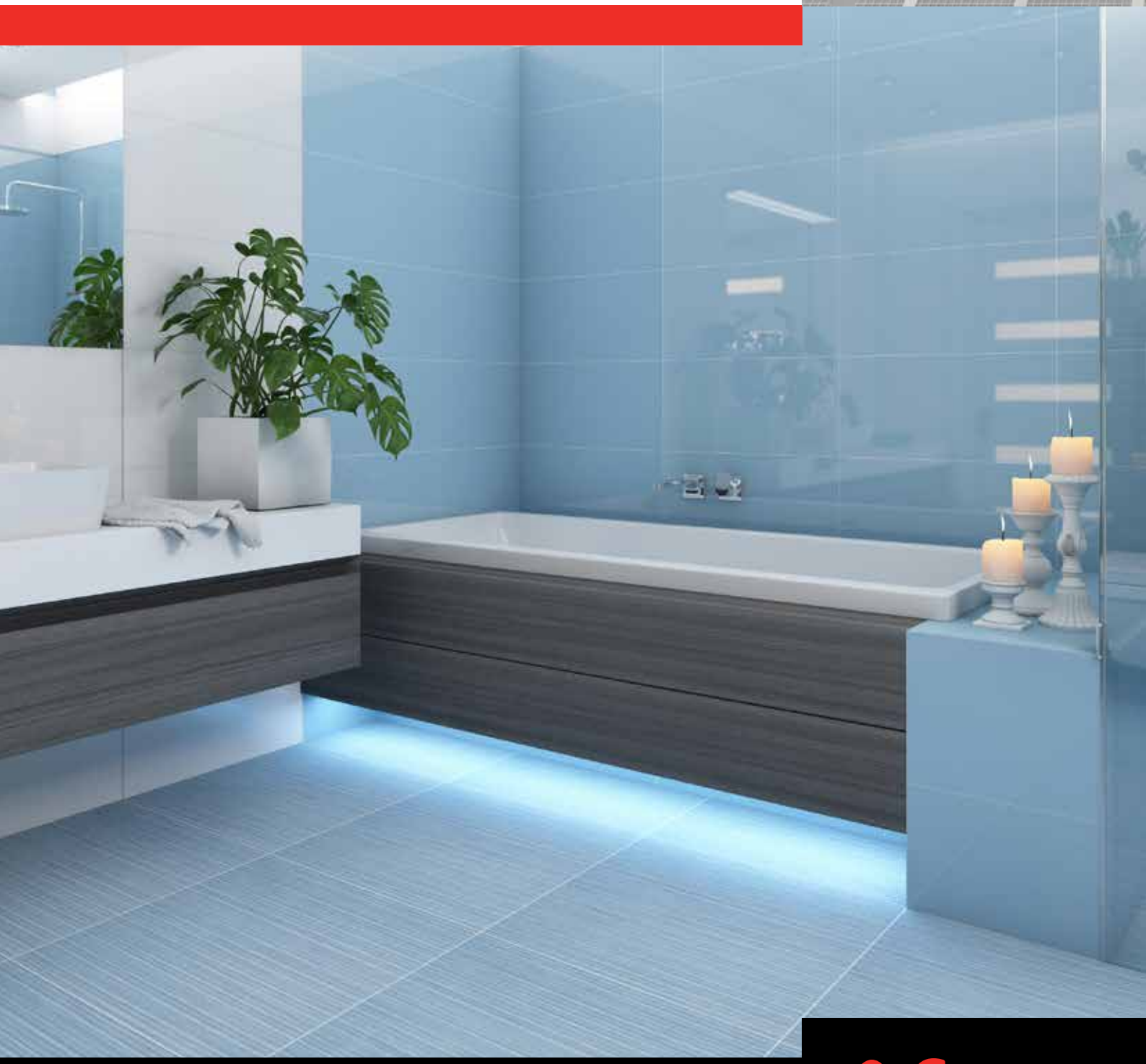


N-HEAT© COLLECTION

MILLIMAT® - Underfloor heating mat



Nexans

BRINGS ENERGY TO LIFE

MILLIMAT® - underfloor heating mat

Ideal for both renovation and new building projects

Nexans underfloor heating is ideal in most types of rooms, such as bathrooms, toilets, hallways, living rooms, kitchens and rooms where children play. The floor is a large area with a low surface temperature. Producing heat under the floor however will ensure radiant heat from the floor and a favourable heat distribution throughout the room.

The heating mat provides comfortable heat which is evenly distributed throughout the room. The mat doesn't take up any wall space, making it much easier to plan the layout of your room.

Renovation

Renovation of existing rooms improves the standard and value of any home. It is also the perfect time to install electrical underfloor heating, as this is a cost effective and environmentally friendly way of keeping your home comfortable and warm.

When renovating a building, constructional depth is usually a limiting factor. People do not want to have to carry out expensive, time-consuming work such as raising door sills, adapting doors etc.

MILLIMAT® is very well suited for renovation projects, and it is ideal for renovation of all types of rooms, including bathrooms.

Affordable

Consisting of only a mat and a thermostat, the heating mat system should be affordable for most house owners.

When the heating mat is controlled by an electronic thermostat, the thermostat will react immediately and independently to any temperature change in the room. This ensures a highly energy efficient heating system for your home.

A floor in which heating has been installed during renovation is usually very quick and easy to regulate, because the heating mat is located near the top of the floor construction, resulting in low energy consumption.

Easy installation

The mat is iust rolled out before the thinset screed or tile adhesive is applied. It is self-adhesive and is attached by pressing it lightly against the base. The mat can easily be adjusted to fit the shape of the room. The cable on the mesh is twin conductor, and no return to the power supply is required. The heating system may be used in any existing room where you want to install tiles.

Reliable and safe

The mat is designed in accordance with the international standards and safety regulations. It is manufactured in accordance with the quality assurance standard ISO 9001 and the environmental control standard ISO 14001. It is supplied with a product warranty, subject to correct installation and operation. Furthermore, the mat requires no maintenance. The twin conductor cable represents no electrical hazard when properly installed.

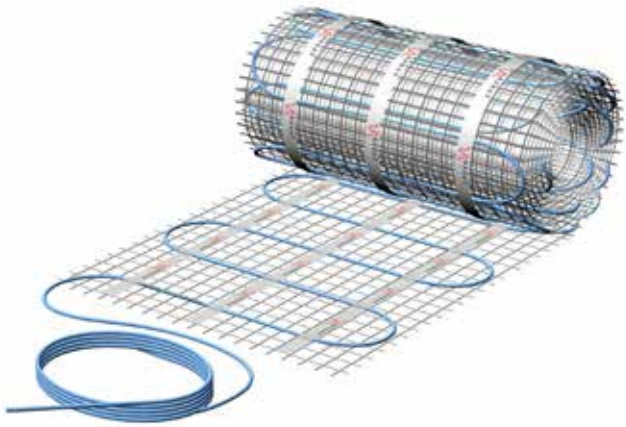
N-HEAT® MILLIMAT®

Thin twin conductor heating cable mat

MILLMAT®
A slim heating cable on a self adhesive fiberglass mesh. The mat is only 4.5 mm thick and is available as 100 W/m² and 150 W/m² versions.

Can be installed in most rooms with a thin floor construction, such as tiles, parquet or other wooden floor coverings. The mat is easily adapted to the shape of the room and may be installed directly in the tile adhesive.

Applications:
The heating mat consists of a twin conductor heating cable unit attached to an self-adhesive fiberglass net. The heating cable unit is delivered with a 2.5 m cold lead through an integrated splice. The splice is as thin and robust as the cable itself, and simplifies installation, as it is not necessary to modify the subfloor when placing the splice.



Two product series are available:

- The 100 W/m² mat is recommended for living rooms, hallways, kitchens and similar rooms. The mat can be installed on any type of level and stable subfloor.
- The 150 W/m² mat is recommended for bathrooms, toilets, laundry rooms and other areas requiring high output. The mat must be installed on a solid, levelled and non-combustible, stable subfloor.

Basic solution for MILLMAT® floor:

1. Tiles/floor covering
2. Membrane
3. Thin screed/slab
4. **MILLMAT®**
5. Non combustible sub floor
6. Insulation

Construction:

- Conductor: Twin resistance wires
- FEP Insulation
- Solid copper earth wire
- Fiberglass net
- PVC outer jacket
- Aluminum sheath
- Total thickness is 4.5 mm (0.18")
- Width 50 cm (19.7")

Technical data:

Area output:	100 or 150 W/m² (9.3 or 14.0 W/sq.ft.)
Elements values from:	100W to 1800W
Max. cont. operating temperature outer jacket:	65 °C
Tolerance on conductor resistance:	-5/+10 %
Mechanical class:	M1
Rated voltage:	230 V

Hidden splice

The hidden splice is as thin and robust as the cable itself, and simplifies the installation as it is not necessary to modify the subfloor when placing the splice.

Nexans – the inventor of heating cables

When choosing the N-HEAT® electrical heating solutions you choose undisputable quality, a century of experience and the reliability of an industry leader.

The Kremlin, the Sivas stadium in Turkey, the Bird's Nest and other Olympic sites in China all have one thing in common with thousands of office buildings and private homes; electrical heating solutions from Nexans. In fact, the heating cable was invented by Nexans in Norway in 1926. Since then, we have produced and marketed high quality heating cables in every corner of the world. For the past 100 years we have focused on the continuous development of heating solutions, constantly exceeding the demands of the market.

Today, our leading heating concept, N-HEAT®, is the obvious choice for maximum comfort and reliability. The high quality heating solutions are easy to install, durable and energy saving, keeping people safe and healthy.

The Langhus factory, located 20 km south of Oslo, is a competence centre for Nexans Heating Cables. The factory was established in 1992 and produces cables for the home market in Norway, as well as to more than 30 export markets. The factory also serves as a logistics centre for all Nexans units in Norway.

More information on www.nexans.com/nheat.

Nexans Norway AS
is a leading supplier of power, telecommunications, installations and heating cables in Norway, and is among the world's leading manufacturers of offshore control cables and high-voltage submarine cable solutions. The company's head office is in Oslo, and it has manufacturing plants at Rognan, Langhus and Halden. The company has nearly 1,600 employees and is a part of the Nexans Group which has an industrial presence in 34 countries and commercial activities worldwide. Nexans employs more than 26,000 people and is listed on the Paris stock exchange.

Nexans Norway AS
Postboks 6450 Etterstad, 0605 Oslo
Besøksadresse: Innspurten 9, Helsfyr
Telefon: 22 88 61 00 - Faks: 22 88 61 01
www.nexans.no

Nexans
BRINGS ENERGY TO LIFE