



HOW TO INSTALL YOUR FLOOR ON UNDERFLOOR HEATING

The correct flooring installation on underfloor heating requires the knowledge and the implementation of the following instructions.

*(Source: Wood Flooring Manufacturers Association <NOFMA>).

1. The flatness of the cement screed must enable its contact to the wooden floor, in order to achieve the best possible conductance.
2. The hardness of the cement screed must enable the excellent adhesion of the glue on it (must not be powdered)
3. The moisture level of the cement screed must be 10% lower than the limits imposed by the glue manufacturer (the drying process of the cement screed is absolutely essential. The highest limit of the permitted moisture is 2%)
4. The expansion joints of the cement screed, which are constructed under the responsibility of the heating manufacturer, must also be followed by the floor.
5. The moisture level of the selected wood must be 6%-8% for classic wooden floor or pre-finished just on the top side, while it can be up to 12% for pre-finished floor on all sides.

The level of the wood moisture during installation must be maintained also during the heating operation, in order to avoid dimensional changes (except length). It is crucial to putty the wood strips on the points of cutting.

The temperature of the floor under the process of heating must not exceed 26° C, while the relative humidity of the room must be maintained at 40%-60%.

6. The specific gravity of the selected wood determines the thermal conductivity coefficient of the floor. In particular, the higher the specific gravity of the wood, the lower the thermal resistance of the floor (according to the European directives, the coefficient of the thermal resistance must not exceed 0,15 (m² k)/W).



Are RELMAT floorings suitable for installation over underfloor heating? If so, which types of floorings and with what kind of installation?

There are two types of underfloor heating:

- A. The classic type of underfloor heating which operates by circulating water through pipes. The maximum heat that is developed on the surface of cement screed is 26°C. **All kinds of RELMAT parquets** can be installed over the above type of underfloor heating, by strictly following the process below:

- 30 days after the construction of the cement screed over the underfloor heating, operate the underfloor heating for 5 days at 8°C-10°C, then operate it for 5 days at 18°C-20°C, and then finally operate it for 5 days at 24°C -26 °C.
- Turn off the system in order to get cold (the temperature of the cement screed surface must be 10°C-15°C) and by using a *MAPEI* hygrometer measure the moisture level of the cement screed on different points of the floor, two times every other day. If moisture is at appropriate levels, then install your flooring. If not, repeat the same process until you reach a satisfactory level of moisture.

The above process is recommended by all the reliable manufacturers of underfloor heating.

- B. The latest method (electric), which operates through heating cables instead of hot water-filled pipes, is able to develop maximum temperature of 34°C - 36°C. **None of the RELMAT parquets** can be installed over the electric underfloor heating.

In order to obtain the best possible result in a floor installation (Solid or Multilayer) over underfloor heating, RELMAT recommends the use of ELASTILON® underlay