

### **Screeds with underfloor heating:**

When using Glue-down floors in a heated subfloor installation, the surface temperature of the subfloor must not exceed 28°C (82°F).

All hot water pipes and electrical heating elements should be embedded in concrete, in accordance with the appropriate building codes and regulations.

Depending on the system involved, this kind of screed is 45 - 65 mm (2 to 3 inches) thick. Testing the moisture of the subfloor using the CM meter (moisture-gas pressure gauge) is always possible if the installer of the screed marked the measuring points. This is the only way to avoid damaging of the heating pipes while the test samples are taken from the screed. If there are no marks, a complaint must be made to the contractor.

Drying out can only be done with a suitable period of drying through heating.

For this reason, the screed must be heated up before installing the flooring.

Remember that rugs or mats placed on top of the floor may function as heat accumulators and will increase the floor surface temperature more than the maximum surface temperature recommended (must not exceed 20 - 22 °C).

The drying of a heated subfloor has to be made by turning the heating on/off with a pause before installation of the floor, following a documented protocol. After that you can begin the heating phase.

The beginning of the heating phase in concrete subfloors is to be made not before 21 days after complete curing of the substrate. The heating phase has to begin with running temperature of 25°C, (78°F) during 3 days.

The subfloor should be in place and cured for at least 60-90 days.

The temperature should then be increased each day until the maximum temperature allowed according to the manufacturer system. This maximum value should be kept for at least 72 hours and maintained for 5-7 days without any turning off. The decreasing of temperature is made by reducing it each day until 18°C on the surface is achieved.

The heating system must be turned on eight days before the application of the leveling compound, so that the concrete slab dries completely.

The heat should be turned off before the leveling compound is applied. Then 3 days after the flooring is installed increase slowly to a normal level. A maximum of 28°C (82°F) should be maintained on the subfloor surface.

### **Important notes:**

Failure to observe these precautions can cause a build-up of moisture or partial evaporation of the leveling compound, or fast drying of adhesive.

Lastly if the heat is turned on when the adhered material has not been conditioned properly on-site for at least 7 days and is not completely dry, the material may shrink. Avoid abruptly turning on radiant heat when cooler weather prevails, as it will subject the flooring to rapid movement of expansion and or contraction. Gradually increase temperature regardless of the season.

The adhesive used must be suitable for heated subfloors.

No responsibility will be accepted in case of malfunctioning of the heating system and related problems.

For detailed information, follow the instructions supplied by the subfloor heating system manufacturer/contractor, or contact your supplier.