

Stop the underfloor humidity with ProVent

The underfloor humidity problem



The current tradition of laying parquet or laminate on a concrete subfloor requires the use of vapour barrier in between the subfloor and flooring. This way the flooring is fully protected from the water vapour coming from the concrete.

Since the drying of concrete takes very long time this process creates a high concentration of water vapour under the barrier film.

So the humidity stays permanently sealed in the area between subfloor and flooring material and this often leads to the formation of mould. Mould presents a huge problem not only to the building itself. The more important issue is the potential health hazard to humans due to possible allergic reactions and respiratory problems. Besides that mould may cause more types of illnesses like immunotoxic and infection.

Demands for a change

Mould and other humidity related problems present a challenge both to the builders and owners and the welfare of communities in general.

Therefore within the industry there is a growing demand for a new approach. More and more people believe that the installation of parquet or laminate may not be considered correct if it leads only to the safety of flooring but not human health.

The most efficient way to get rid of humidity in the underfloor area is to create an air exchange there. And there are already a number of solutions for the underfloor ventilation available on the market. However they are expensive and therefore not widely used.

ProVent – an efficient low cost solution

ProVent is the first low cost system of self-ventilated flooring underlay that eliminates the conditions for development of mould. The main feature of this underlay is a forced ventilation of the concrete subfloor. The permanent air exchange on the surface of subfloor would keep the moisture level very low.

ProVent consists of a profiled low density polyethylene foam sheet that is laminated to a high density polyethylene film. In working conditions, under the floor pressure, ProVent is approximately 3mm thick. ProVent should be installed with the profiled side facing down to the surface of concrete subfloor.

Thanks to the flexibility of polyethylene foam and the right size of air channels the walking on the floor creates pumping up-and-down movements with enough pressure to exchange air in the underfloor continuously.

ProVent is durable material and it maintains the flexibility and original thickness during the whole lifetime of parquet or laminate.