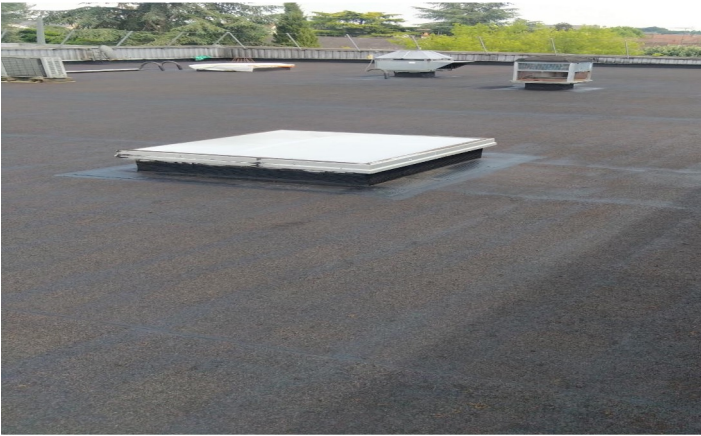


Climate coating - little effort, big effect

The heat loads in summer are increasing all the time. Large low-rise buildings in particular, which stand without shading all day, heat up quickly as a result. This is an increasing problem, especially with heat-sensitive goods and a lot of public traffic, including in all supermarkets that are not built around or over. However, one French supermarket owner did not want to install air conditioning and found a different solution.



Supermarkets are often under great competitive pressure. In addition to product range and price, the shopping experience also plays a major role. It is unacceptable for the market space to be overheated, either in terms of product quality or the customer's sense of well-being.

At the same time, you have to be very cost-sensitive in order to remain competitive - installing and operating an air conditioning system is therefore a double-edged sword.



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A supermarket owner in France was therefore looking for a different solution and opted for a ClimateCoating climate control coating. Due to the fact that he owned two similar supermarkets in terms of location and heat load, it was decided to combine the coating with a comparative measurement and only coat one of the stores.

The measurement was carried out on the outside of the roof and in the interior. It was also important to find out whether the coating reduces the heat input in summer, but also increases heating costs in winter, as this would not be effective in terms of the overall energy balance. For this reason, the heating costs were also compared in winter 2023/24.

The result was very clear, not only in summer as expected, but also during the heating period.

At outside temperatures of 33°C, the uncoated roof temperature rose to 72°C and the coated roof temperature to 44°C. In the interior, this effect caused a difference of 7°C.

In the uncoated store, the thermometer showed a peak of over 30°C, in the coated store only a good 23°C, i.e. a pleasant 10°C cooler than the outside temperature. In winter, on the other hand, the coating did not increase heating requirements - quite the opposite.

Would you also like to easily solve heat problems in your building? As an independent specialist in energy-neutral climate control materials, we will be happy to advise you and find a tailor-made solution for you.



Focus:
Heat