

Climate coating - little effort, big effect

Heat loads in summer are increasing all the time. This not only poses major challenges for residential and office buildings, but also requires more and more countermeasures in industry. This example shows how this can be achieved in warehouses without technology and energy consumption.



More and more vehicles and appliances are being powered by rechargeable batteries in everyday working life. It is often a requirement that the batteries are stored separately from the device and completely outside the storage depots.

At the same time, there must be no risk of overheating in order to comply with fire safety regulations. For this reason, a large German logistics provider has set up storage containers for batteries at all its locations.



As it was not in the operator's interest to install an air conditioning system in each container just for battery storage, a different solution was sought.

The decision was made in favor of a ClimateCoating all-round climate control coating and it was assumed that small air conditioning units would only have to be used for peak loads. These were to be switched on and off automatically by a temperature logger when a critical limit value was reached.

A test field on a first container took place in hot June 2023 and after coating, the internal temperature was continuously logged and monitored.

The result was surprising and even more positive than expected. Even with a very high heat load, the peak temperature in the container remained several degrees below the defined limit value.

An air conditioning unit did not have to be switched on at any time. Based on this test, the containers were coated at all locations and the operator assumed that no additional air conditioning would be used.

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