

During my Italian vacation I had watching a situation. Evening, temperature of an ambient air 26-30°C. The truck with refrigerator-trailer is staying at the parking. The freezer works enough long and turn off, it means that the inner temperature dropped to required level. But only after 15-20 minutes the freezer turns on again. What does it mean? It means that the insulation of the refrigerator is bad or not enough. As the result, the owner of the refrigerator wastes fuel and money instead of getting profit.

The insulation of the refrigerator is a compromise. Too thick insulation layer within the trailer decrease its net volume and the efficiency of trucking. Under the rules and law it is impossible to increase trailer's size.

We can solve this problem. The ultra-thin insulation coating Temp-Coat TC 101 allows to improve considerably thermal insulation of the refrigerators and buses without increasing of size, weight, volume and decreasing of net volume.

The experiments prove that if you need to prevent warming from sunlight, 1 mm layer of Temp-Coat has the same efficiency as 10 cm layer of *Styrofoam*. (see an experiment description).

Such trailer construction allows considerably improve thermal insulation features of walls and a roof of the trailer. As a result you save fuel and money and get an extra profit.

We offer ultra-thin liquid thermal insulation Temp-Coat (made in USA) working on infra-red rays reflection principles.

The simplest sample of TC efficiency. 2 layers of Temp-Coat insulation whole thickness 1mm applied on steam pipe (120 – 160°C) ensure that the personnel will not get any burn after touch the pipe. You can touch the pipe and leave your arm there without any burn risk and pain feeling. It means that the surface's temperature would be as 40-50°C.

The insulation reflects 93% of visible light and 95% of infra-red radiation. It means that the cooler chambers and auto refrigerators will not warm up at the sunlight and you don't need huge charge for cooling. The insulation TC 101 successfully works at the breweries SanMillers in Hungary, Russia and Romania.

Our insulation coating is being applying like a paint in few layers by a brush, by air or airless sprayer. One layer thickness is 0.5 mm, so thickness of the insulation may be as from 1 mm up to 4 mm. The Temp-Coat insulation may be repaired very easily in case of damage and doesn't need recovery.

UNION B+C s.r.o. E-mail: [info@unionbc.cz](mailto:info@unionbc.cz) Ph. +420-777-832-348

Jiskrova 1566, Brandys nad Labem, Praha-Vychod, 25001, Czech Rep.