

Records from test measurement with ADITIZOL paint

Measurements were made by: **ZVU Strojírny, a.s.**
(chemical, energetic and food industry)

Surface temperature measurement results using ADITIZOL paint			
Surface temperature measured on a steel plate placed above the water vapor source:			
Thickness of paint layer (mm)	Temperature of the uninsulated part of the steel plate (°C)	Temperature of the part of the steel plate insulated by ADITIZOL (°C)	Temperature difference after insulation with ADITIZOL (°C)
1,5	86	45	-41
Surface temperature measured on a steel plate placed on a heating device:			
Thickness of paint layer (mm)	Temperature of the uninsulated part of the steel plate (°C)	Temperature of the part of the steel plate insulated by ADITIZOL (°C)	Temperature difference after insulation with ADITIZOL (°C)
2,5	162	60,5	-101,5
3,5	162	46,5	-115,5
	173	50,2	-122,8

The basic guidelines widely used by industry are generally for the surface temperature less than 60 °C. The 3.5 mm thickness measurement was made to reach a temperature of less than 50 °C required by the customer.

Surface temperature measured on a steel plate placed above the water vapor source

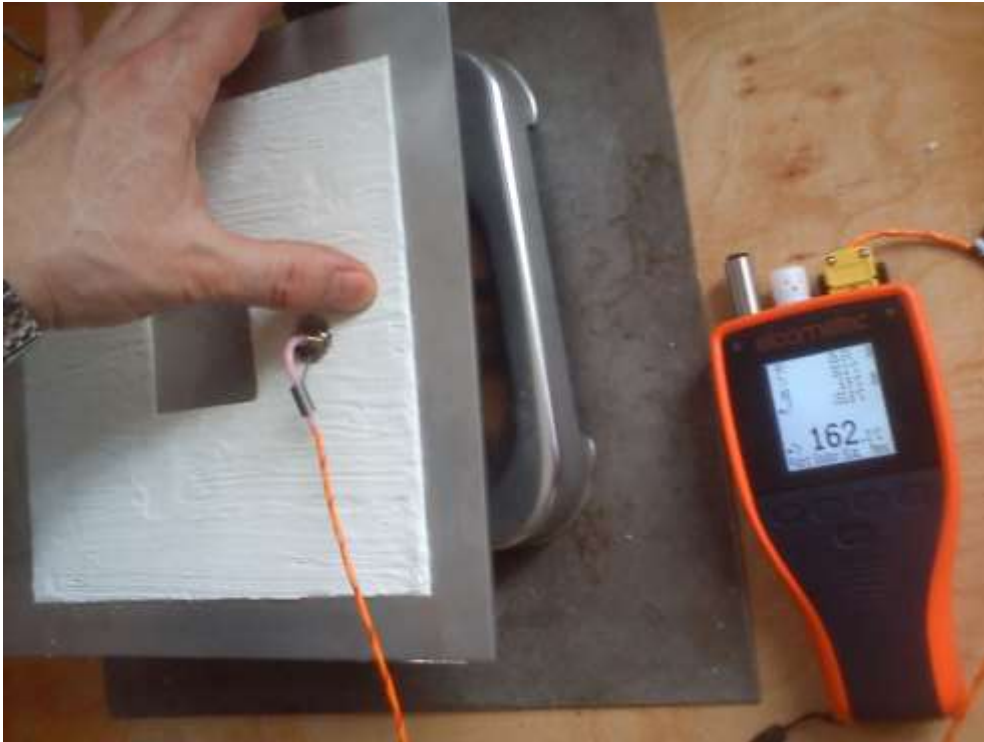


86,8 °C



45,6 °C
1,5 mm of ADITIZOL

Surface temperature measured on a steel plate placed on a heating device

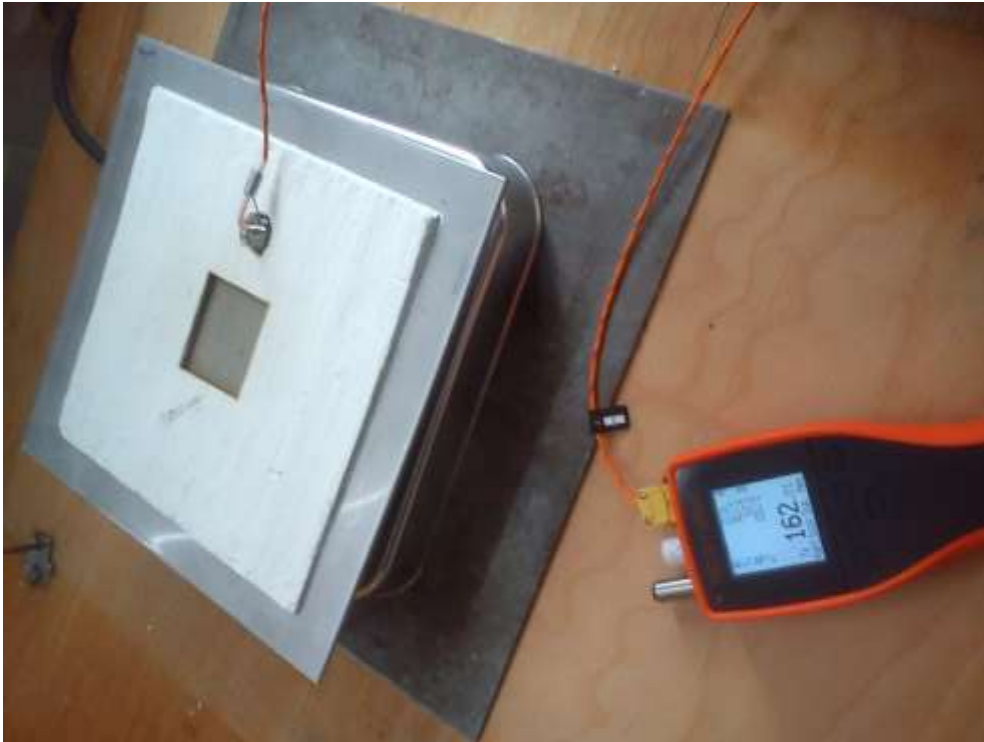


162,2 °C



60,5 °C
2,5 mm of ADITIZOL

Surface temperature measured on a steel plate placed on a heating device



162,3 °C



46,5 °C
3,5 mm of ADITIZOL

Surface temperature measured on a steel plate placed on a heating device

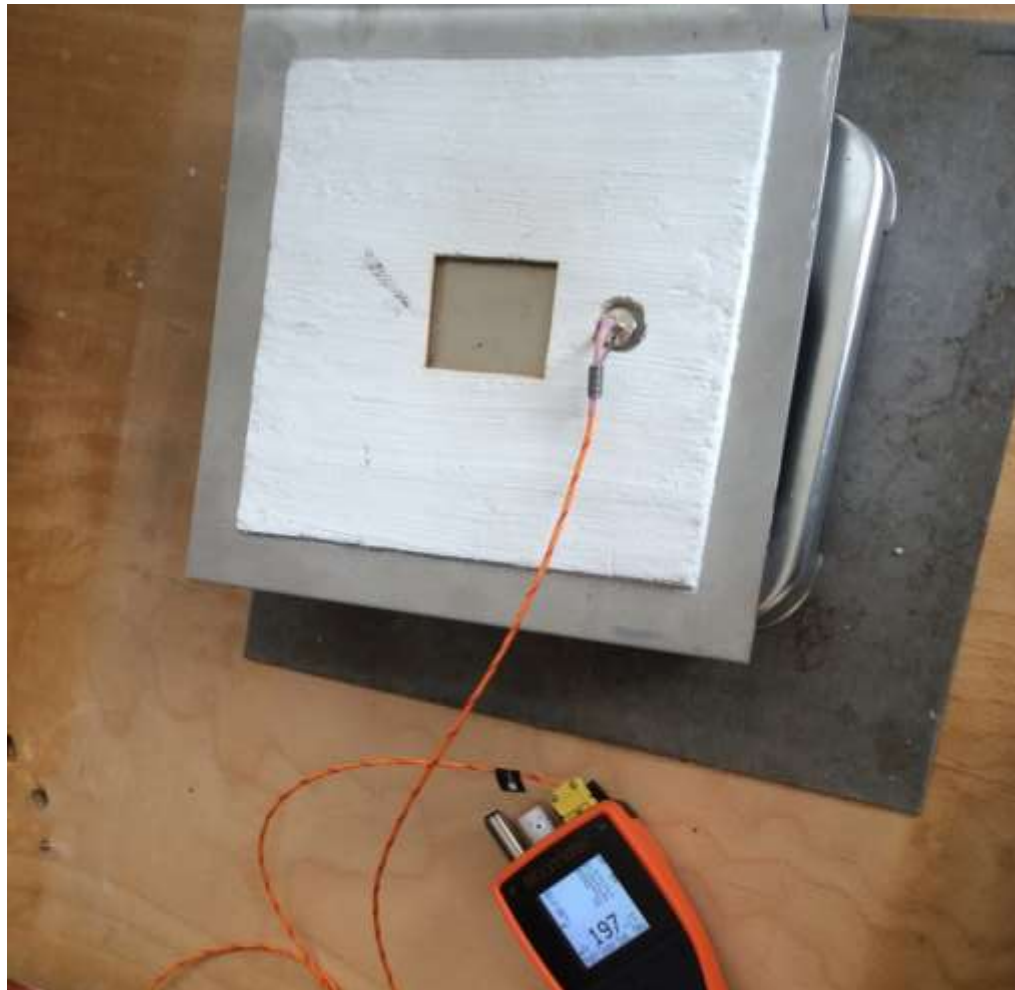


173 °C



50,2 °C
3,5 mm of ADITIZOL

Surface temperature measured on a steel plate placed on a heating device



197,1 °C

Measurements at the indicated temperature were made to verify the applicability of ADITIZOL paint at a declared operating temperature of up to 200 °C.

An example of using ADITIZOL on a ZVU technology product



ZVU STROJIRNY, a.s. use ADITIZOL BASIC paint in some projects as a substitute for conventional insulating materials (PUR soil, mineral wool). The photo is a tank that serves as a water tank in the brewery. The location of these reservoirs was paid out in the open air to prevent overheating of the surface of the reservoir in the summer by the solar energy, and to maintain the required water temperature in the tank at winter. An application of ADITIZOL BASIC has been designed to meet this requirement. Applied paint thickness 1.5 mm.

The result of the application:

- stability of insulation and protective characteristics,
- protection from direct sunlight,
- protection against overcooling of the tank cover,
- ensuring and maintaining the required temperature regime,
- possibility of permanent visual control.