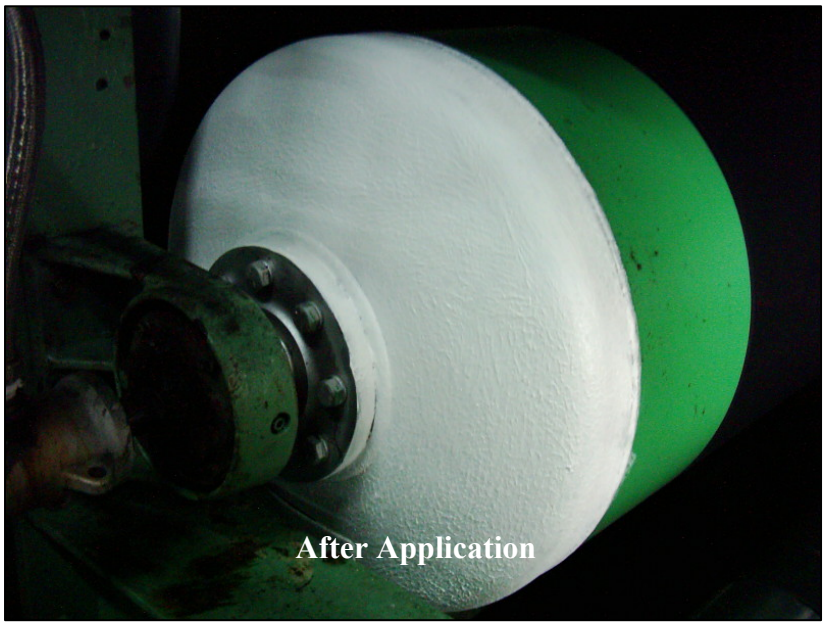
Mascoat PRODUCTS

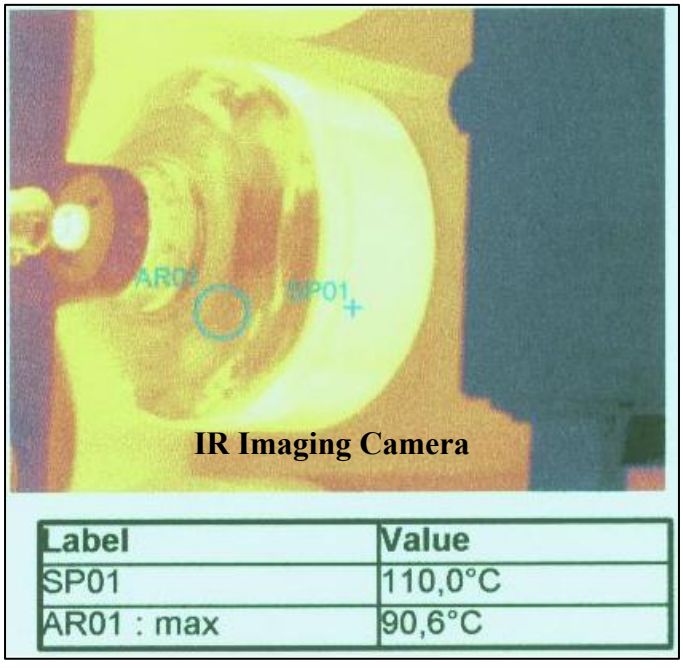
**Why Paint And then Insulate?**

*The Industry Leaders in Insulation Coatings*

# INFRARED SPECTRAL ANALYSIS






Picture of substrate in working environment with Delta T Industrial applied. Image taken with Infra-red thermal imaging camera with pin-point measurement analysis.

**Before Temperature:** 230°F
**After Temperature:** 194°F
**Differential:** 40°F
**Coating Thickness:** 20 mils (0.5mm)

Measurements taken by IR thermal register may be skewed to the high side as the coating's emissivity has changed and the IR gun does not account for the difference in known emissivity vs. the coating's emissivity. This means that the coating will "feel" much cooler than the recorded temperature.

The following pictures depict a piece a pipe coated with Delta T Industrial at a thickness of 20 mils (0.5mm) in a working application. The IR Spectral graph was then taken to show the difference in IR signature. The pipe was reported cool to the touch. All temperatures represented are depicted in Degrees Centigrade. The purple area is the coated area.

**Fig 1**

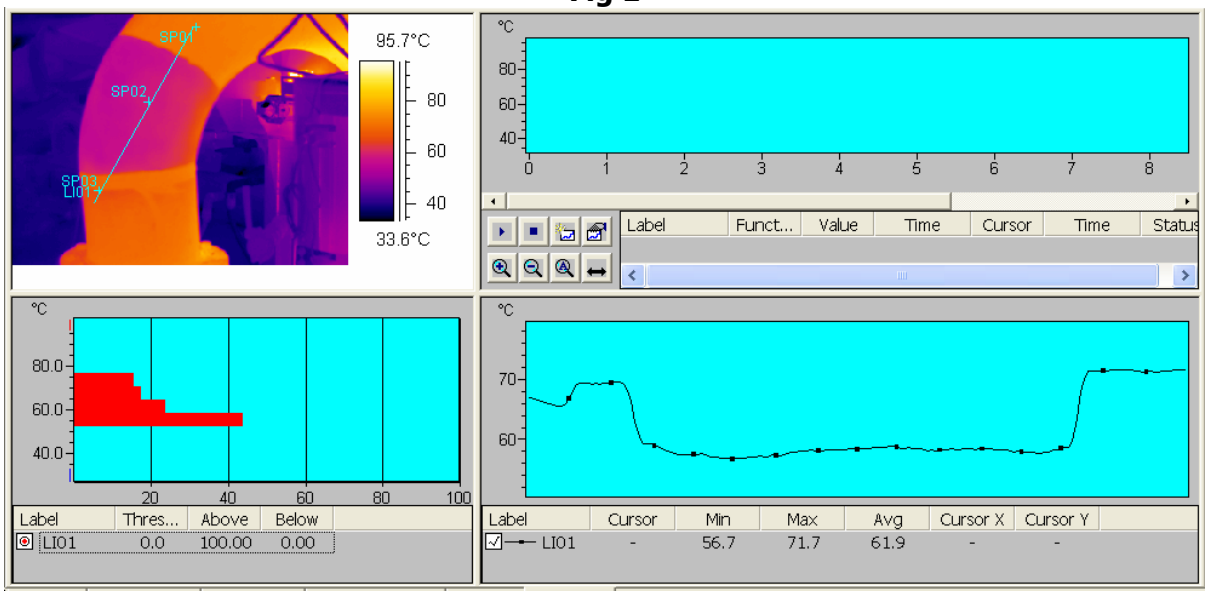



**Fig 2**

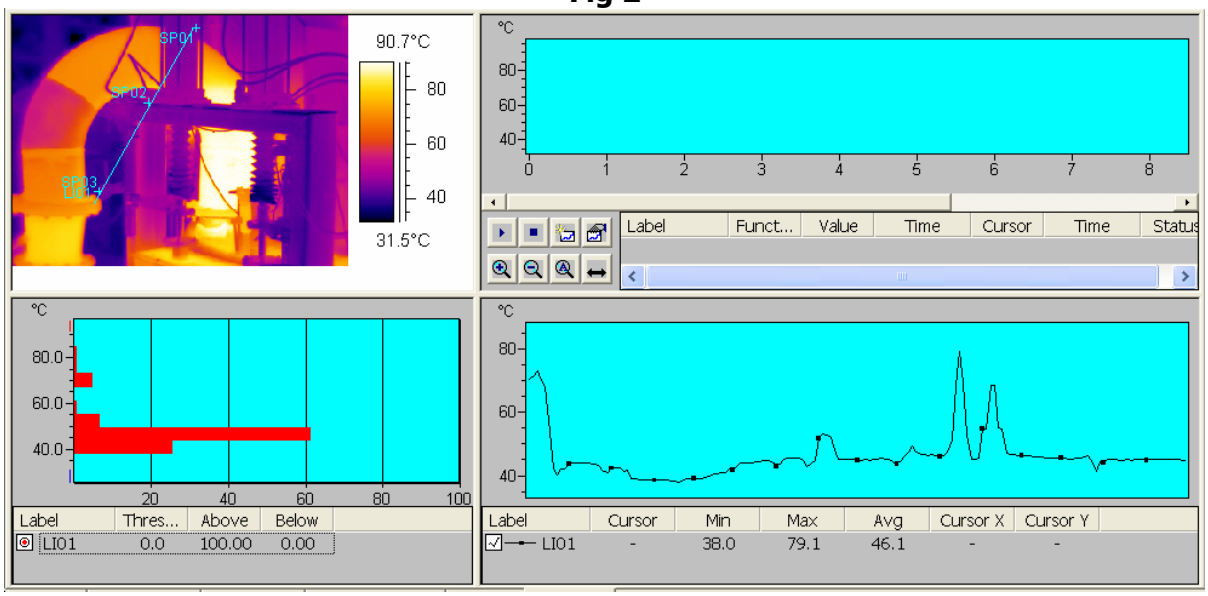


**Fig 3**

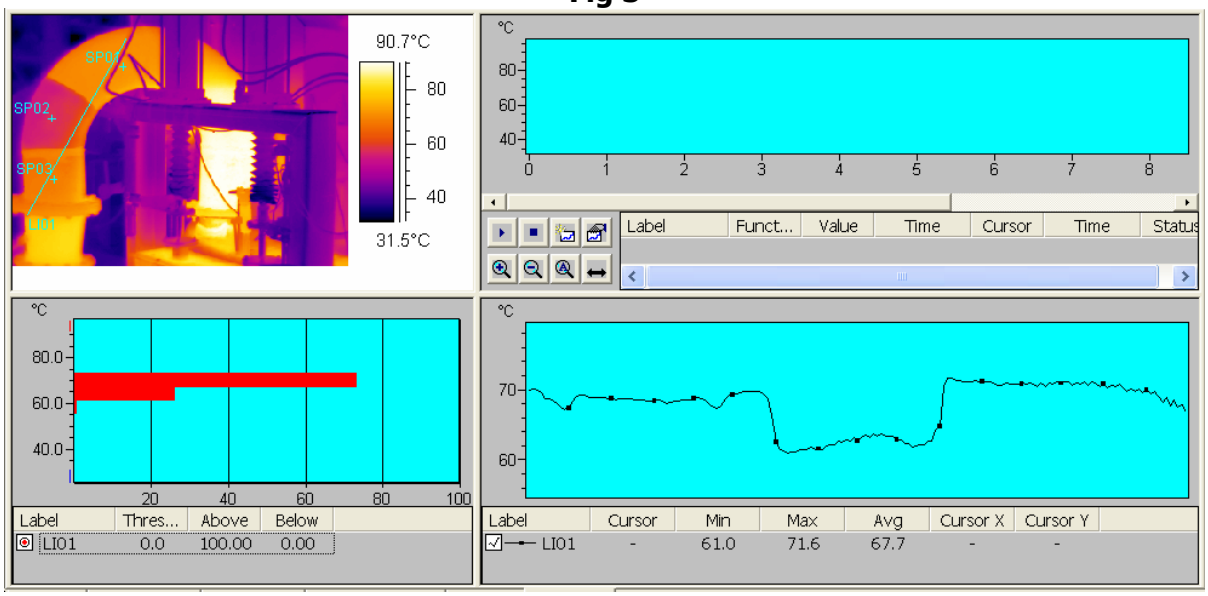
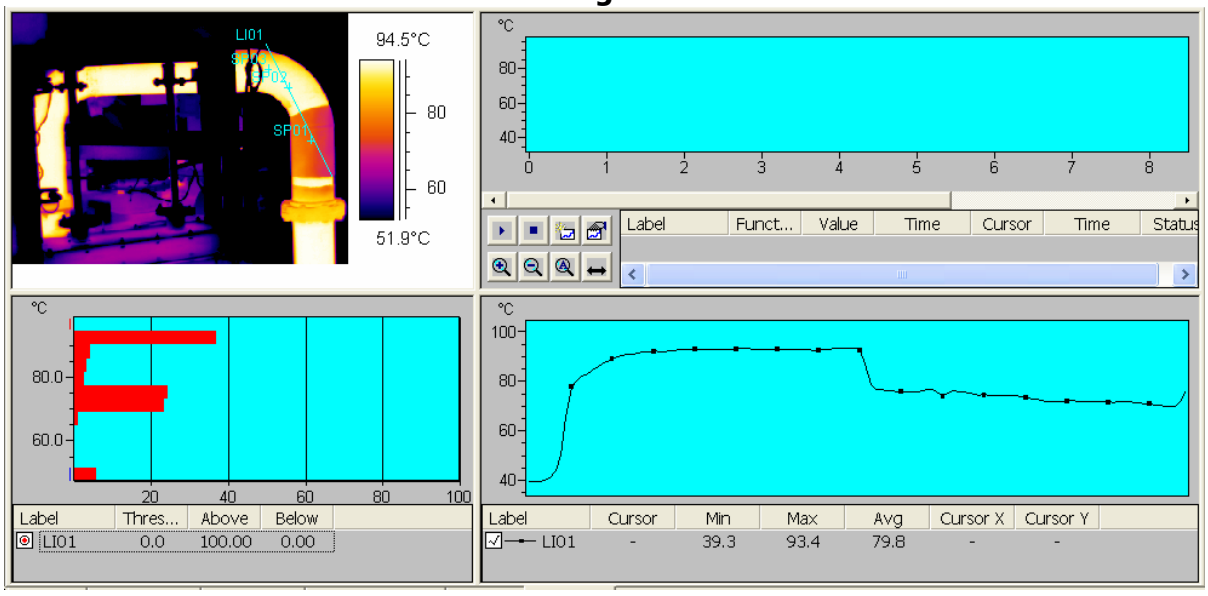



**Fig 4**

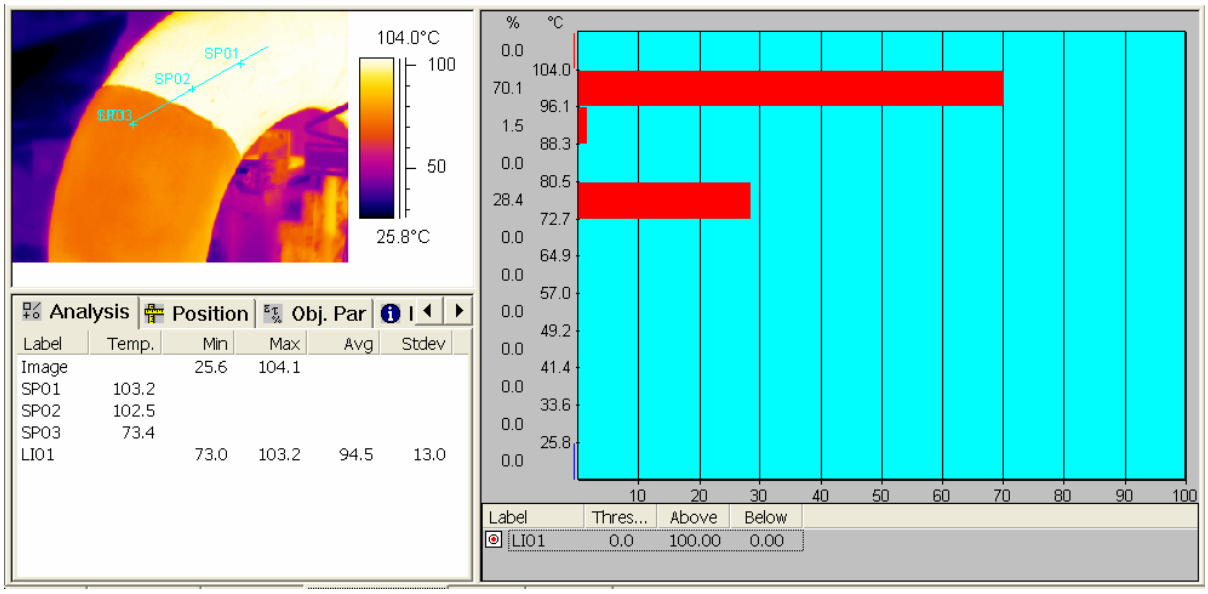



The graphs above show that the coating is producing dramatically lower temperatures even at one coat thickness. Increased results would be found if the coating was applied to more thickness.

The next graph shows an increase in substrate temperature so it was determined to increase the thickness of the coating.

**Fig 5**

This graph shows a difference of almost 30°C with a 20mils (0.5mm) of DTI applied to the surface.




These pictures were taken and an industrial plant processing facility.