



**Mascoat**  
P R O D U C T S

**Why Paint  
And then  
Insulate?**

***The Industry Leaders in Thermal Insulation Coatings***

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**These are just a few of the hundreds of applications using our insulating coatings. Each application was performed to help insulate and protect substrates in a coating application.**

**Substrate: HEAT EXCHANGER**

**Problem:** Corrosion Under Insulation, Personnel Protection  
**Reason for application:** The coating was used for personnel protection. The coating was sprayed onto a working vessel without shutdown and requires only washing for maintenance. The coating has been on the vessel for over six years in an industrial setting with no failures.



**Starting Temp:** 200°F (93 °C)  
 $\Delta T$ : 100°-108 (57-60 °C)

**Post App Temp:** 92°-100°F (33-37 °C)  
**Ambient:** 64°F (17 °C)

**DFT:** 40-60 mils (1-1.5 mm)

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**Substrate: JUICE HEATER**

**Problem:** Heat retention for processing  
**Reason for application:** Delta T Industrial Coating was used to help insulate this juice heater so a target temperature for processing could be achieved. The coating was sprayed onto a zinc primer. This application was completed in three hours.



**Starting temp:** 225°F (107 °C)  
 $\Delta T$ : 115°F (64 °C)

**Post App Temp:** 110°F (43 °C)  
**Ambient:** 58°F (15 °C)

**DFT:** 60 mils (1-1.5 mm)

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**Substrate: DIFFUSER**

**Problem:** Heat Retention in cold weather, protection for subst.  
**Reason for application:** This diffuser runs a steady temperature of 88°C. It was decided that the substrate should be insulated for heat retention in cold weather and also for personnel protection.



**Starting temp:** 190°F (87 °C)  
 $\Delta T$ : 80°F (64 °C)

**Post App Temp:** 110°F (43 °C)  
**Ambient:** 80°F (26 °C)

**DFT:** 60 mils (1.5 mm)

**Substrate: TANK STORAGE FACILITY**

**Problem:** Tanks were imploding during cleaning

**Reason for application:** Over 40 tanks like this one were insulated on the tops to deter implosion of the tanks. At this facility chemicals are stored inside these tanks for short time. After storage, each tank has to be steam cleaned to be readied for the next chemical. During the summertime, rain showers were super cooling the metal causing pressure differentials and thus implosion would occur. To date, no implosions have occurred since the tanks were coated.



**Starting temp:** 300°F (148 °C) steam

**DFT:** 30 mils (0.75 mm)

**Result:** *NO IMPLOSIONS*

**Substrate: VALVE ASSEMBLY**

**Problem:** Corrosion Under Insulation (CUI)

**Reason for application:** This valve assembly was continuously replaced due to a CUI problem. This conventional insulation was applied to protect personnel from burns, yet it was below a steaming point so moisture would be entrapped. After the coating was applied the valve was protected. The valve can also be serviced with minor touchups.



**Starting temp:** 200°F (93 °C)

$\Delta T$ : 75°F (41 °C)

**Post App Temp:** 100°F (52 °C)

**Ambient:** 71°F (21 °C)

**DFT:** 30 mils (0.75 mm)

**Substrate: PROCESS EXCHANGER**

**Problem:** Heat Retention, Corrosion Under Insulation (CUI), personnel protection

**Reason for application:** This processor was designed to help a chemical process occur over time. This substrate was coated with Delta T Industrial Coating so the process could occur with desired temperature.



**Starting temp:** 300°F (148 °C)

$\Delta T$ : 145°F (84 °C)

**Post App Temp:** 155°F (64 °C)

**Ambient:** 71°F (21 °C)

**DFT:** 60-100 mils (1.5 – 2.5 mm)

These are just a few of the applications that have been documented. We have numerous applications available on request.