

Geothermal Plant Electrical Boxes

Client: Withheld

Location: Desert

Coating used: Mascoat Industrial-DTI

Reason for coating: Circuits overloading, labor, and shutdown costs



A geothermal plant in the desert was having trouble with the circuits in their electrical boxes. During the day, the sun was heating the stainless steel boxes to over 155°F (68.3°C), which was causing some of the internal circuits to overload. The cost of these unexpected shutdowns was two fold. No only did they have the cost of parts and labor to do the repairs, but they also had to shutdown the processes the boxes were controlling.

These boxes were going to be very difficult to insulate traditionally due to

the numerous switches on the outside. There was also no room for insulation on the inside, so the plant decided to try an insulation coating to reduce the internal temperature.

The application procedures for this project were very straightforward. No primer was required because the substrate was stainless steel, and the prep work consisted only of a light solvent wipe. The plant then had two of their in-house painters apply 2 coats of Mascoat Industrial-DTI White using Mascoat's Small Application Sprayer, which only requires an 80-psi air source. Two of these boxes were coated in one morning of work.

At the end of the summer of 2013, Mascoat followed up with the customer to see how the application was performing. The customer said, "We are thrilled with the results. We haven't had to replace any of the circuits in those boxes since we coated them. For a few hundred bucks we were able to solve a problem the was costing us thousands each summer."