

Liquefied Petroleum Gas (LPG) Spheres

Client: Withheld

Location: Richmond, California and Salt Lake City, Utah

Coating: Mascoat Industrial-DTI

Thickness: 60-80 mils (1.5-2.0 mm)

Reason for application: Radiant heat gain and solar loading issues



In 2009, two different facilities used Mascoat Industrial-DTI on a total of three LPG spheres. These spheres were dealing with radiant heat gain/solar loading issues. These issues would increase the amount of Liquefied Petroleum Gas (LPG) that vented to the flare header.

On the Salt Lake City application, only the top 50% of the spheres were coated, as it was determined that it would cut down the majority of the areas subjected to radiant heat gain. Prior to the application, Mascoat's engineering department compared 80 mils (2.0 mm) of Mascoat

Industrial-DTI to 2" of cellular glass insulation. The decision was then made to prime the substrate with a surface-tolerant epoxy, and then followed by 4 coats of Mascoat Industrial-DTI.

After the successful DTI applications of the initial two spheres, the third LPG in Richmond, California was coated with the same product. Because no two geographic locations are the same, it was determined that this sphere only required 60 mils (1.5 mm). However, this sphere had to be coated on the top two-thirds to achieve the results that the client was looking for.



These two applications prove that the versatility of using a coating for thermal insulation can provide a custom, tailor-made solution to your specific application.