



SOLARCOOL
COATINGS

Cooling the planet one coating at a time.



- Saves fuel
- Reduces maintenance costs
- Reduces capital outlays
- **Environmentally friendly**
- Minimizes down time
- ROI in as little as 12 months

www.SolarCoolCoatings.com

Solar Cool Thermal Coating

saves money *for reefer operators*



Solar Cool Thermal Coating is a 100% acrylic elastomeric coating with our proprietary sealed ceramic micro-bubbles added. This high flex elastomeric coating with its superior adhesion and weather ability provides unique surface characteristics ideal for use on refrigerated trailer roof tops.

Our thermal coating has two important surface properties: a high solar reflective rating and an equally high thermal emittance rating. Solar reflectance is the percentage of solar energy that is reflected by a surface. Thermal emittance refers to the ability of a material to release absorbed heat.

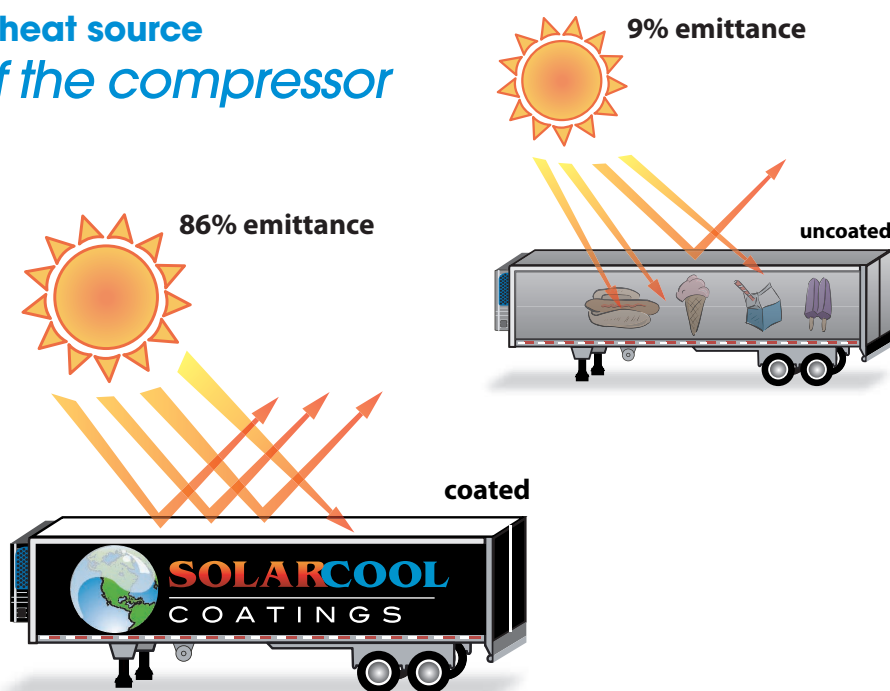
A standard refrigerated trailer roof is made from a sheet of uncoated aluminum covering 2 inches of polyurethane foam insulation. Although aluminum has a good reflectance rating (.71), it has a very low emittance rating (.09). This is why on a sunny 90 degree day the roof temperature on a refrigerated trailer can reach 185 degrees and up effectively turning the roof into a heat sink transferring heat through the insulation and into the trailer interior.

By coating the roof top of a refrigerated trailer with Solar Cool Thermal Coating we change the dynamics of the roof. With two coats (12 mils) of Solar Cool Thermal coating reflectivity improves to .84 and emittance improves significantly to .86. Once coated, the roof temperature on a sunny 90 degree day will stay within 5 degrees of the ambient air temperature virtually eliminating the roof as a heat source.

Eliminating the roof as a heat source

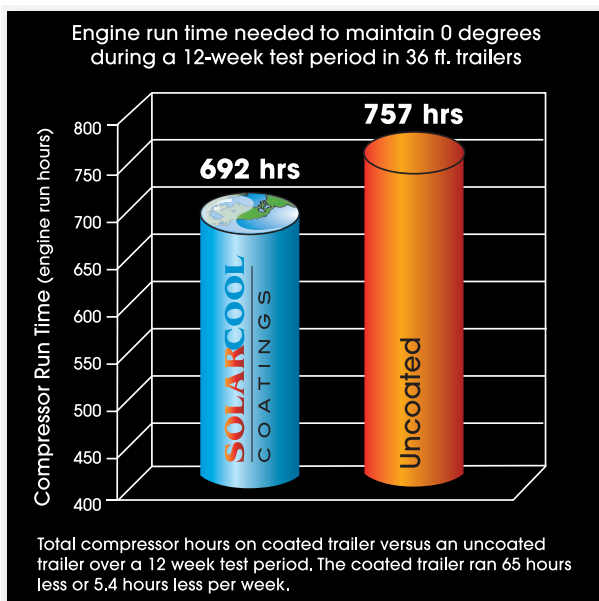
extends *the life of the compressor*

The life cycle of a reefer unit is shortened by a combination of insulation degradation and air intrusions into the trailer body causing the unit to work harder to maintain internal temperature over time. Solar Cool Thermal Coating removes the roof as a heat source countering the insulation degradation and at the same time sealing any air and water intrusions. This results in a lower load factor on the compressor unit.



We provide professional **on-site application** *which means no downtime for your fleet*

Service



Solar Cool Coatings provides professional on-site application of our thermally enhanced long lasting elastomeric coating. Whether we coat a fleet of 25, 100 or 1,000 it all starts with the same premise: You don't make money if your trailers are sitting in the yard. We work with you to insure the logistics for coating your fleet does not interfere with day to day operations. Our team will schedule around your needs working days, nights and weekends to ensure your fleet is ready to roll when you need them. Our professional staff of installers inspects every roof, makes repairs where needed, preps the roof surface and applies two coats of Solar Cool Thermal Coating to the roof top.

Saves fuel

By eliminating the refrigerated trailer roof as a heat source you reduce the load on your compressor. Reduced compressor load equals reduced compressor run time needed to maintain internal temperatures. Reduced run time equals fuel savings.

Environmentally friendly

Every gallon of diesel fuel saved reduces green house gas emissions by 8.5lbs. And Solar Cool Thermal Coatings are water based and well below all VOC standards.

Reduces repair costs

Less compressor run time reduces wear and tear on the unit. Reduced wear and tear means fewer break downs, which saves money on parts and labor, as well as less downtime over the life of your reefer.

Reduces capital outlays

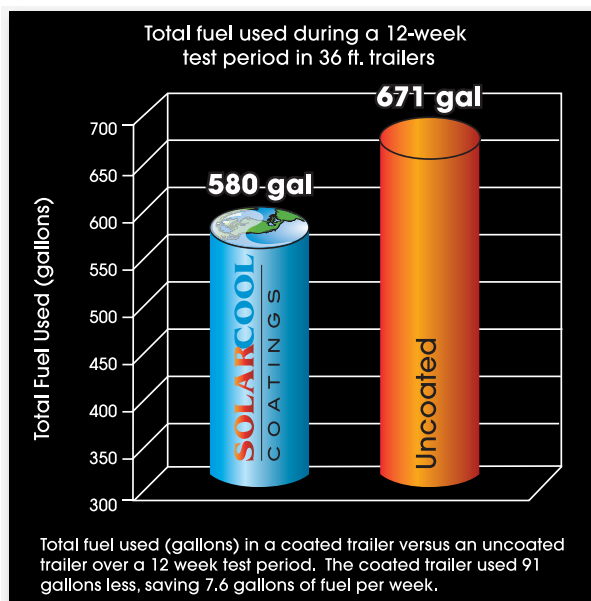
The average life cycle for a refrigerated trailer is ten years. By extending the life cycle of the compressor unit you delay spending for parts, labor and unit replacement.

We coat while you sleep

We work with you to improve your fleet's efficiency without disrupting operations. Solar Cool Coating's professional installers will get the job done for you when it best suits your schedule.

ROI in as little as 12 months

Cost reductions in fuel savings and compressor maintenance results in fast payback.



Benefits Saves Money



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