



Green Building Council
LEEDS Qualified

TC Ceramic

Liquid Ceramic Insulation Coating

www.x-techgroup.com
(866)-943-9832

TC CERAMIC

TC Ceramic is the latest in modern insulation technology. It's versatility allows for different types of applications. ***TC Ceramic*** has been utilized in a variety of commercial and industrial applications around the world.

One of ***TC Ceramic's*** unique characteristics is it's ability to withstand operating temperatures up to 500°F (260°C). This makes ***TC Ceramic*** the most advanced product of its type, as it can withstand higher temperatures over a longer period of time.

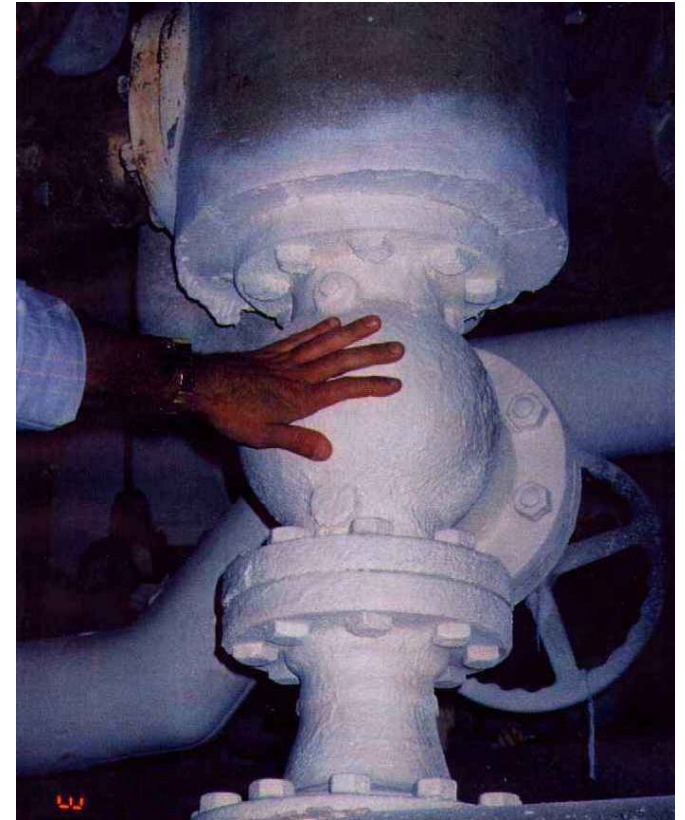
COST SAVINGS

TC Ceramic will provide material and labor savings in several ways to the customer because:

- It is applied directly to the hot surface without having to shut down operations.
- It lasts longer than conventional insulation, thus saving material costs and labor time regarding re-application.
- It can be applied to all fittings, pipe bends, pipe connections and other hard to insulate situations.
- It can be easily reapplied in situations where it has been removed for general maintenance on any surface.
- It is more efficient for energy savings on pipe, boilers, heat exchangers, etc.
- If weight is an issue, ***TC Ceramic*** is very light at 3 pounds a gallon dry.
- It is not impacted by moisture like conventional insulation, thus does not require replacement after getting wet.

SAFETY/PERSONNEL PROTECTION

Safety and personnel protection is one of the top advantages of using **TC Ceramic**. It adheres directly to most surfaces and insulates that surface from conducting heat. **TC Ceramic** can lower surface temperatures in order to comply with OSHA requirements in accordance the ASTM 1057 Skin Touch Test.



STEAM OR INDUSTRIAL PLANTS

TC Ceramic will insulate hot pipes, boilers, or holding tanks in industrial plants and lower the surface temperature of whatever it coats.

Before



After

CORROSION RESISTANCE

TC Ceramic is anti-corrosive, because it adheres directly to the surface material and does not allow moisture to reach the surface. Because of the adhesion method, the environment for corrosion is all but eliminated.

TC Ceramic is not sold as an anti-corrosive material but the anti-corrosive benefits of this product are remarkable.



Before



After

CONDENSATION

By using ***TC Ceramic*** directly on the substrate surface, condensation can be minimized or eliminated on the outside of cold or chilled pipe. In un-insulated conditions, pipes may accumulate condensation which contributes to corrosion.



CONDENSATION

By using *TC Ceramic* on the outside of warm air ducts (dust collection systems and bag-houses) it will minimize or eliminate condensation and material build up on the inside of the system. This will help minimize corrosion.

By reducing build up on the interior of the unit, down-time, cleaning costs, and fire danger are greatly reduced.



MASONRY

Because of its excellent adhesion to most surfaces, ***TC Ceramic*** has been used on brick buildings and rooftops all over the world. Shown here, a military hospital in Baghdad has coated the top of its building, reducing air conditioning costs and lowering heat absorption.



CONCRETE STRUCTURE APPLICATIONS

TC Ceramic can be applied directly on a concrete surface to provide thermal insulation for the concrete without having to build internal or external wall space for insulation.
(Recommended 40 mils –or 1 mm)

TC Ceramic can be protected from damage or abuse by applying a coat of urethane to increase durability on floors, walls, ceilings, or anywhere high traffic is a concern.

ROOF APPLICATIONS

TC Ceramic has the highest reflectance (83%) and emissivity (94%) of any products on the market. In most facilities, energy costs are reduced without having to remodel the facility.

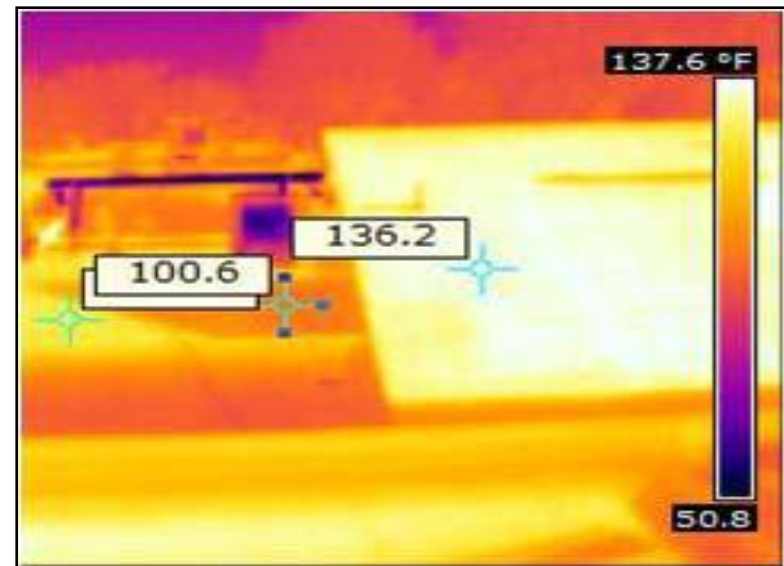
- By cutting the heat that penetrates the roof, the contraction and expansion of the roof caused by the heat will be reduced, thus reducing roof leakage, damage to the roof, and the costs of roof maintenance.
- Insulating from heat intrusion through the roof reduces the costs for air conditioning, refrigeration, freezers, or other environmental controls and provides a more comfortable place for employees and lower energy costs for commercial warehousing.
- **TC Ceramic** will add very little weight to the roof as it is less than one-tenth of a pound per square foot.



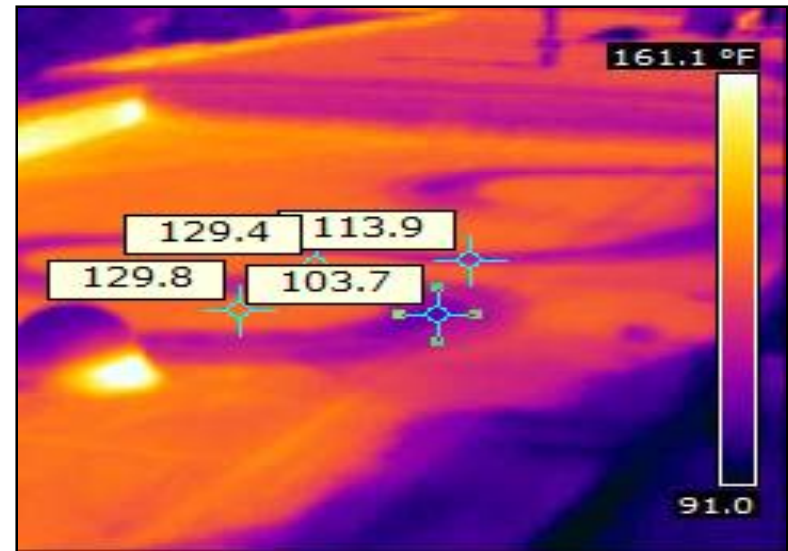
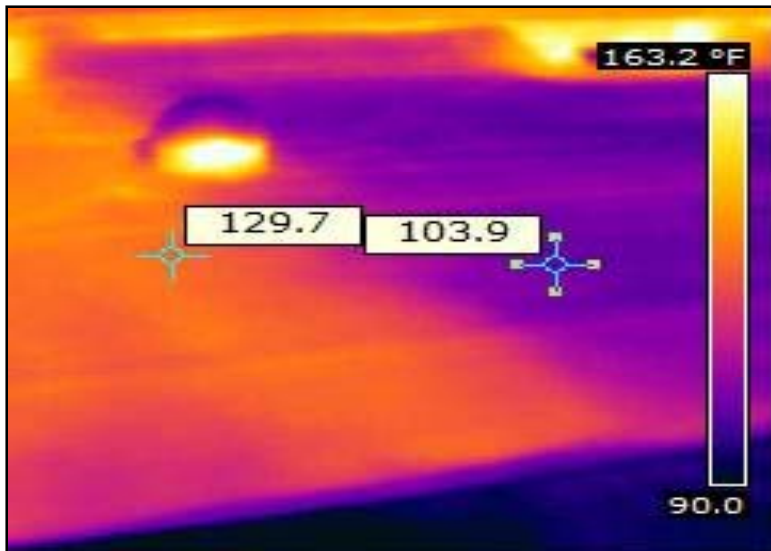
ANHEUSER-BUSCH COLD STORAGE HAWAII
SOUTH & WEST WALLS AND ROOF



ROOFS IN NEW MEXICO



THERMAL IMAGES



ACOUSTICAL BENEFITS

By using 30 to 40 mils (.75 mm to 1.0 mm) of ***TC Ceramic*** on the interior of a building or on the housing of equipment that is generating noise dampening benefits will be noticeable.





Your Source for
TC Ceramic

The Exceptional Technologies Group
415 E Wall St. Suite: D
P.O. Box 1687
Eagle River, WI 54521

Info@x-techgroup.com

(866) 943-9832