



*their safety is essential.*  
Protecting people, property, and the planet.

## Thermal Insulative Coatings Protect Against Corrosion Under Insulation (CUI)

### Are You Using Traditional Insulation?

#### Problem:

Controlling the temperature in tanks, process vessels, and piping is crucial in a variety of industrial sectors. Traditional insulation creates an ideal condition for corrosion under insulation (CUI), leading to costly shutdowns, repairs, and even product loss.



Rusty pipeline

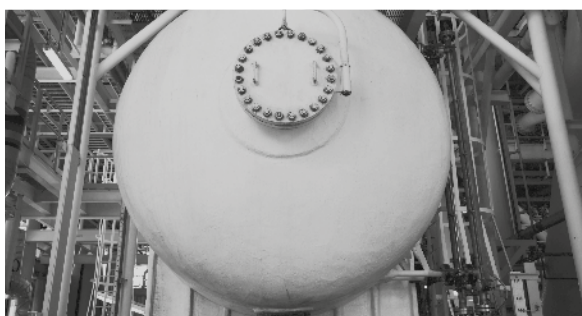
#### Solution:

Basic Concept's (BCI) TP-2500 insulating coating provides an alternative to conventional insulation. Using a microscopic matrix of air-encapsulated ceramic particles suspended in a high-grade acrylic binder, it provides thermal protection that surpasses fiber-based insulation materials.

How does it work? The highly reflective ceramic particles trap stagnant air in a structural matrix that effectively blocks thermal transfer. Additionally, the low emissivity of the coating results in considerably low heat flux. These factors enable efficient thermal dissipation across the surface of the coating and prevent the substrate from absorbing heat from external sources.

One of the main benefits of TP-2500 is its ability to prevent CUI. Unlike the fibrous materials that compose conventional insulation, insulating coatings adhere tightly to the substrate surface. Thus, they are unable to absorb or collect moisture in the same way as conventional insulation. TP-2500 can be spray applied to boilers, pipes, and various industrial surfaces in addition to tanks and vessels. It provides a thin, aesthetically-pleasing and seamless surface finish compared to other types of insulating materials.

**For further information call 1-800-285-4203 or visit us online at [BasicConcepts.com](http://BasicConcepts.com)**



Insulated oil tank



Pipe and boiler thermal insulating coating