

A Thermal- ceramic coating for buildings and generally a heat protection system

The basic product consists of a dispersion of special acrylic resins, which contain millions of microscopically tiny vacuum-filled ceramic bubbles and is the basis for a tremendously high-energy reduction factor. In addition, pigments of titanium and aluminium of high quality are added and have proven to provide up to 86% sun-heat-reflection as well as being incomparably tough, resistant and high longevity.

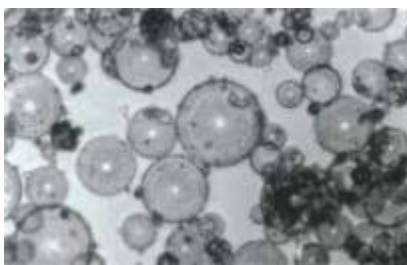
Walls and roofs are notorious energy wasters.

Thermo-Shield provides three-ways to conserve and save on energy.

Thermo- Shield is extremely effective for use on interior-walls, exterior-facades and roofs. The reaction of the total vacuum in the ceramic bubbles chokes off the heat exchange and therefore drastically reduces energy costs. The physical nature of a vacuum and the reflection qualities (vacuum-flex) in this product explains the fact, why a very thin coat of only 0,25 mm of Thermo-Shield is sufficient to achieve this sensational effect.

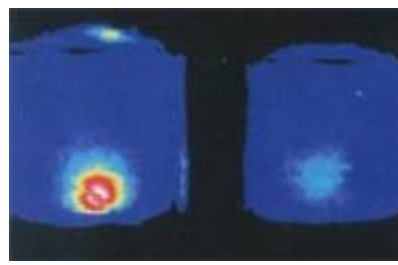
Because Thermo-Shield also has the qualities of being dirt and oil resistant, as well as being washable and that only a very thin coat is needed to achieve these results, makes your investment in Thermo-Shield a threefold value.

1. Savings on air-conditioning and heating costs.
2. Reduction of material expenditures and labour expense.
3. In the long-term, as opposed to having to strip, old less effective and more expensive insulation material, a disposal-free building protection. Also the absence of mould and damp conditions will greatly reduce problems with asthma and chest problems.



Max-Planck Institute:

200-fold enlargement of ceramic vacuum bubbles.



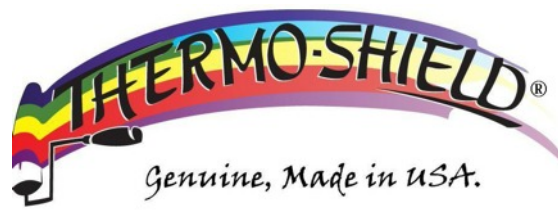
thermo-tec heat camera:

on the left: heat is lost without coating

on the right: THERMO-SHIELD slows down heat losses.

Actual examples of field (use) and a partial list of some of our satisfied customers all over the world

BMW · Rolls-Royce · Siemens · General Motors · Toyota · Yamaha · Sony · Hitachi · YKK · Esso · Exxon Chevron · Shell Amoco Oil · Coors Beer · Holiday Inn Hotels · McDonalds · The US Government. The University of Colorado. Town hall of Austin, Texas · Department



of Agriculture, Japan · Asahi Beer Sapporo Beer, Japan · House of science and technology, China · Harbor building Abu Dubai. Planetarium of the university Rio Grande Do Sul, Brazilian · Planning Department and building control office Berlin-Köpenick · Senate of the City of Berlin · Hospitals in NRW · Real-Estate Mutual Funds, Building contractors and Housing co-operative in Germany

Thermo-Shield is used preferably in hot, cold and wet climatic zones by office and apartment houses, villas, ware-houses, cold-storage depots, brewery's, refinery's, container, air-planes, ship's, buses and caravans, industry-plants as well as a protective outer skin for a deep sea oil-platform in the China sea.