

The 200- μ paint film blocks/contains heat and saves energy

Insulating Paint Ultra Therm J Grade

Features

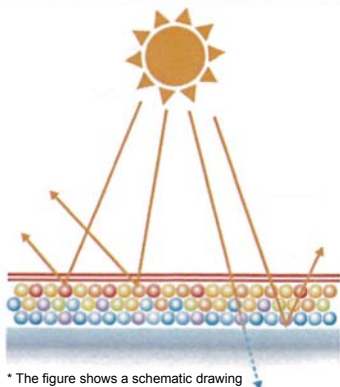
- The reflective microsphere ceramic beads with a vacuum interior in the paint work as heat insulators/reflectors.
- Reduces power consumption by an average of 10 to 12%.
- Prevents condensation and reduces heating costs during the winter.

Overview

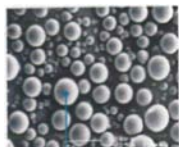
(Technical principles, actions, etc.)

Structure of Ultra Therm J Grade

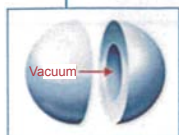
Ultra Therm J Grade contains 4 types of ceramics having different functions; one of the types cuts infrared rays, two have reflection effects and the remaining one has an insulating effect.



* The figure shows a schematic drawing



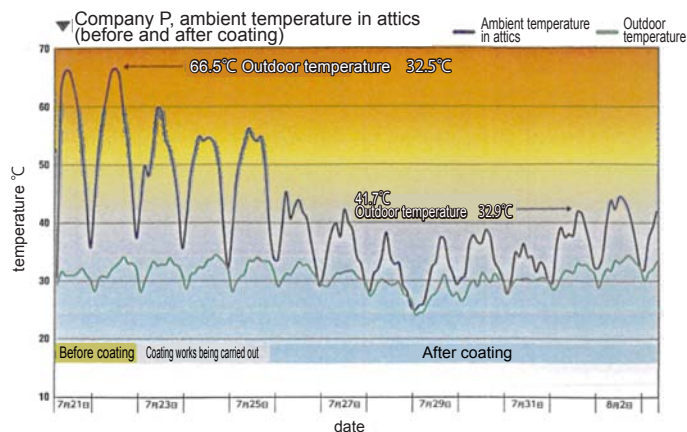
Ultra Therm J Grade contains microsphere ceramic beads with a vacuum interior. The ceramic vacuum microbeads are micro-sized reflective vacuum spheres which are unparallel effective insulating and reflecting materials. The ceramic beads have a vacuum interior that prevents the conduction of heat energy, just like a thermos bottle. The beads refract, reflect and dissipate heat.



Enlarged view of ceramic beads

This principle ensures a comfortable environment all year round, by preventing the conduction of heat and saving air-conditioning energy during the summer, and by preventing the conduction of cold and saving heating energy during the winter.

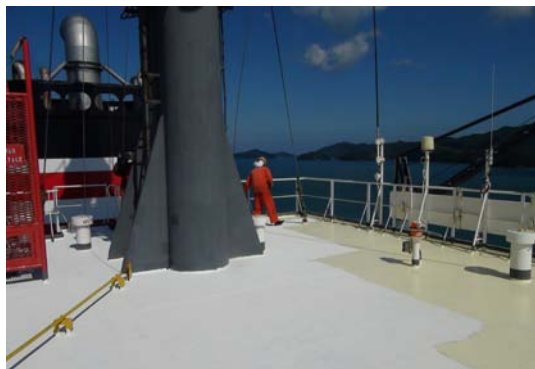
Effects



Roof coating with the insulating paint, combined with previously implemented energy-saving measures, further reduced CO₂ emission by 22 t/year and the power consumed by air conditioning by approximately 9% (actual measured values).

Reference courtesy of Panasonic Electric Works SUNX Tatsuno Co, Ltd

Introductory Track Record



Sailors also care about global environmental protection. Hachiuma Steamship Co. Ltd., NYK Group The deck is painted with the insulating paint to reduce air-conditioning load and CO₂ emissions.



Construction subsidized by the 2011 energy-saving and green promotion program for public facilities in Kochi prefecture (CO-OP Kochi)



Ultra Therm is being used outside of Japan (in China) for energy conservation in summer. (Sumika Electronic Materials (Wuxi) Co., Ltd.)

Applicable field
Blocks external heat energy, teaching factory, roofs, walls, warehouses, canals, tanks and ships, and drastically reduces power consumption. Contains heat insulating substances and saves energy.

Water

Energy saving/Energy/recovery

Energy storage/Energy creation

New energy

Waste disposal/ Recycling/Resource saving

Air

Soil

Other

Okura Chem-Tech Corp. Coating Business Unit 5F R&H Bldg., 3-1-31 Edobori, Nishi-ku, Osaka 550-0002

● TEL / +81-6-6441-3424 ● FAX / +81-6-6443-1806 ● E-Mail / yoshi_takahashi@okura-ct.co.jp ● <http://www.okura-ct.co.jp>