

# Thermal Barrier Paint

## reduces heat load for Carrefour



**Success story: Bangkok, Thailand, November 2009**



Above: 609m<sup>2</sup> warehouse's roof before painting  
Caption: existing aluminum foam insulation.



Above: only 2 coats are needed, without primer.

### Carrefour Thailand successfully tested Planet Supra Thermal Barrier Paint, dramatically reducing building heat load.

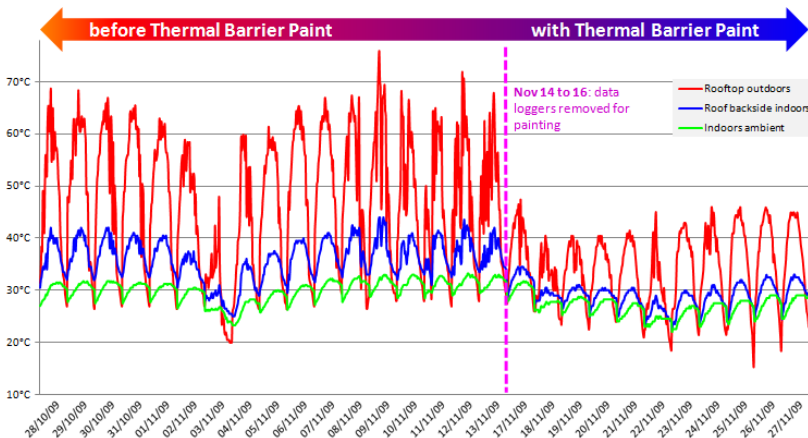
The weather in Thailand is warm all year round, even during the winter season. Buildings are notoriously expensive to cool down and for those without air-conditioning, an effective insulation is paramount in providing bearable working conditions for employees.

Carrefour Thailand painted one of its store's back of house's metal sheet rooftop with Planet Supra Thermal Barrier Paint to evaluate its performance and cost-saving potential. The retailer's objectives are to reduce air-conditioning costs and the company's carbon footprint at the same time. The selected warehouse's roof is already insulated with aluminum foam, yet ambient temperature indoors still regularly reaches more than 40°C on hot days.

After applying Planet Supra Thermal Barrier Paint, the building's heat load dropped instantly (*cf. bottom left*). The results are remarkable since they were obtained during the cool season on an already insulated rooftop.

The next step involves painting air-conditioned stores to measure electricity savings related to the expected drop in air-conditioning workload.

#### Building heat load drops as recorded from Oct. 28<sup>th</sup> to Nov. 27<sup>th</sup> by data loggers, before/after painting the metal sheet rooftop.



#### Thermal Barrier Paint data sheet:

- ✓ makes buildings instantly energy-efficient
- ✓ high performance as per JIS R 3106:1998



- ✓ certified solution to reduce CO<sub>2</sub> emissions
- ✓ easily applicable on all surfaces, without primer
- ✓ non-flammable, mold-free, crack-free
- ✓ water-based, VOC-free, 100% eco-friendly
- ✓ infinite number of colors available