

Thermal Barrier Paint



Carrefour aims for energy savings

Success story: Bangkok, Thailand, January 2010



Photo: Carrefour's project manager verifies heat load difference between painted and unpainted roofs.

Planet Supra Thermal Barrier Paint reduces building heat load by 33% for Carrefour, retailer aims for savings on air-conditioning.

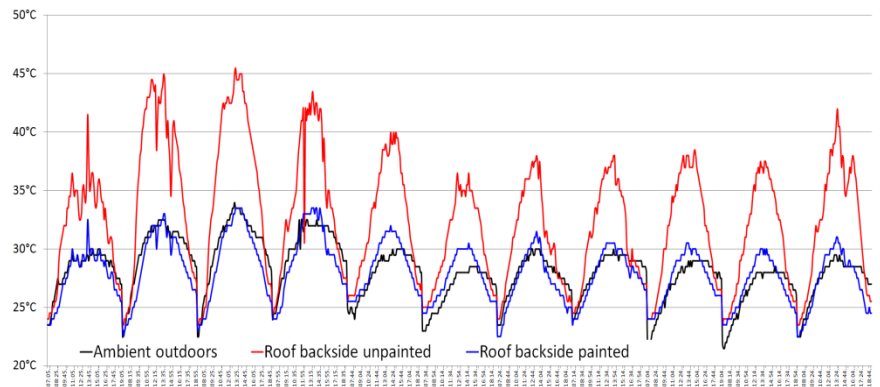
Following the success of a pilot project with Planet Supra Thermal Barrier Paint, Carrefour proceeded with evaluating its performance and cost-saving potential on retail stores' air-conditioning budget.

Half of a warehouse's roof was painted on January 7th, to record temperature differences simultaneously on the painted and unpainted sides using electronic data loggers.

Even in January's cool weather, the readings showed an impressive 18°C less on the rooftop outdoors and 13°C less indoors backside of the roof, insulated with PE foam.

7am to 7pm	Outdoors ambient temp.	Roof backside indoors	
		Daily average	Maximum delta
09-Jan	28.2°C	-4.0°C	-9.0°C
10-Jan	29.8°C	-6.9°C	-13.0°C
11-Jan	30.3°C	-6.9°C	-12.0°C
12-Jan	30.2°C	-4.9°C	-10.0°C
13-Jan	28.0°C	-4.1°C	-8.5°C
14-Jan	26.6°C	-3.0°C	-6.5°C
15-Jan	27.8°C	-3.6°C	-7.0°C
16-Jan	28.2°C	-3.4°C	-7.5°C
17-Jan	27.0°C	-4.3°C	-8.5°C
18-Jan	26.3°C	-3.8°C	-8.0°C
19-Jan	27.3°C	-5.2°C	-11.0°C

Temperature readings from January 9th to January 19th, from 7am to 7pm. Heat load reduction: less 33% on rooftop, less 29% on roof backside.

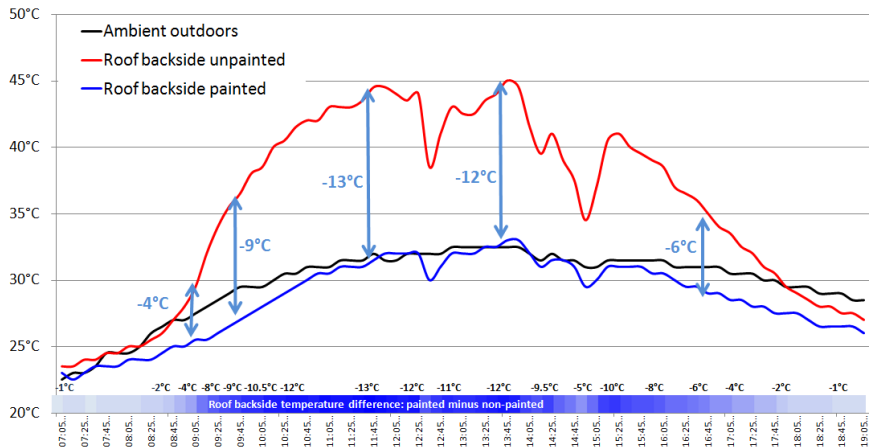


Thermal Barrier Paint data sheet:

- ✓ makes buildings instantly energy-efficient
- ✓ high performance as per JIS R 3106:1998⁽¹⁾
- ✓ certified solution to reduce CO₂ emissions
- ✓ 10 years lifespan at full performance
- ✓ applicable directly on most surfaces
- ✓ non-inflammable, mold-free, crack-free
- ✓ water-based, VOC-free, 100% eco-friendly
- ✓ infinite number of colors available
- ✓ self-cleaning effect



Zoom on January 10th, 2010: temperatures recorded indoors on insulated roof backside, from 7am to 7pm, showing heat load drop during the day.



(1) Japanese Industrial Standard