

The Eco Thermo Coat – Transparency type

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MARUSYOSANGYO CO., LTD.

NEW DEVELOPMENT DIV

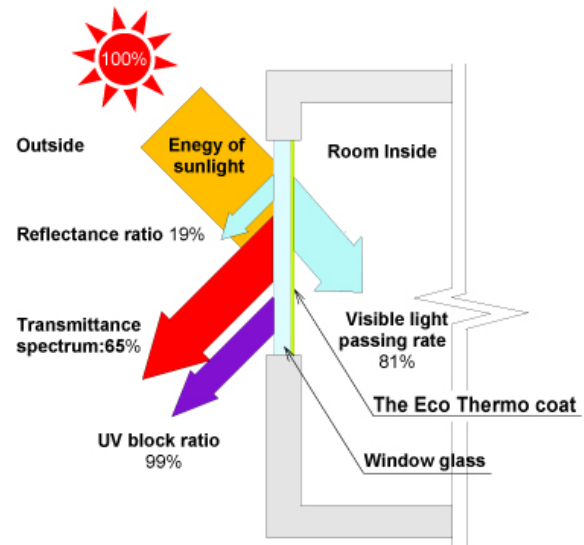
1. About “Eco Thermo Coat”

The Eco Thermo coat is proprietary water based thermal barrier coating for glass.

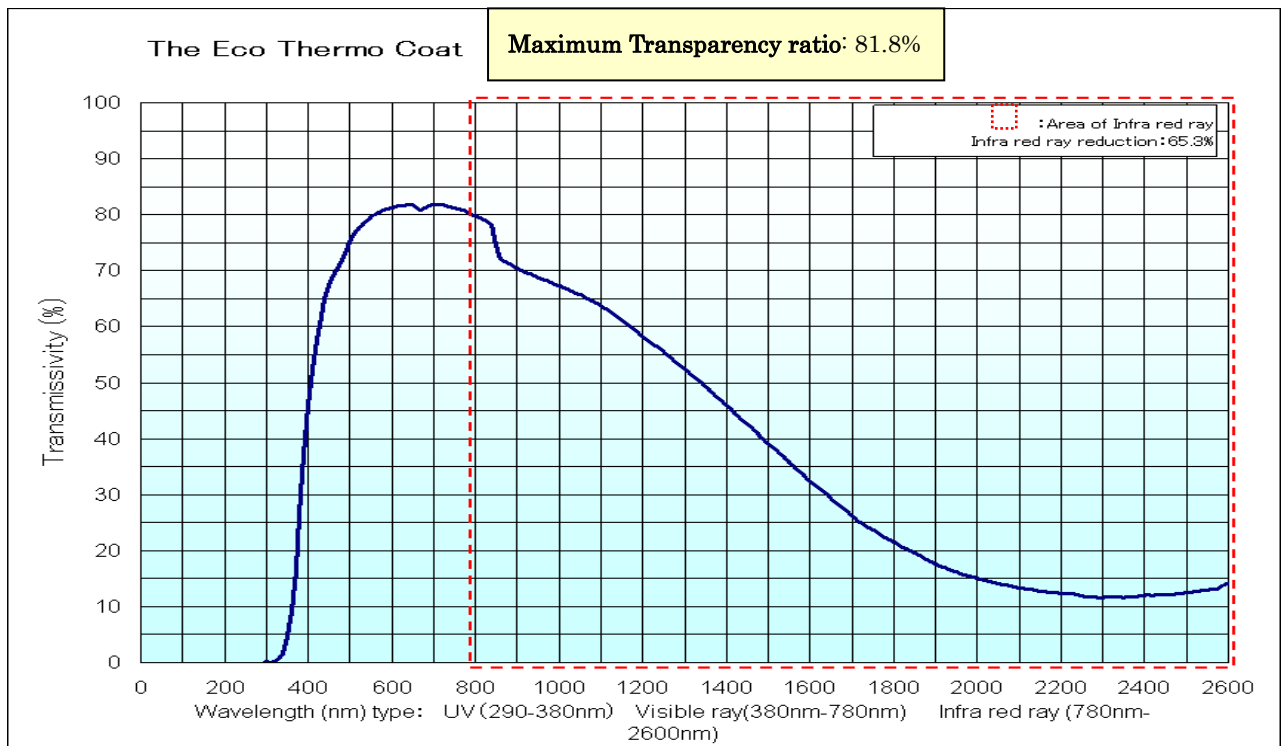
This product can be applied on glass window from room inside. It formed film is absorbed infra red ray from sunlight and prevent increase of temperature for room.

This effective property is energy-saving effect for electricity expense of air-conditioning equipment.

This product is also able to use several plastics



2. Transmittance spectrum



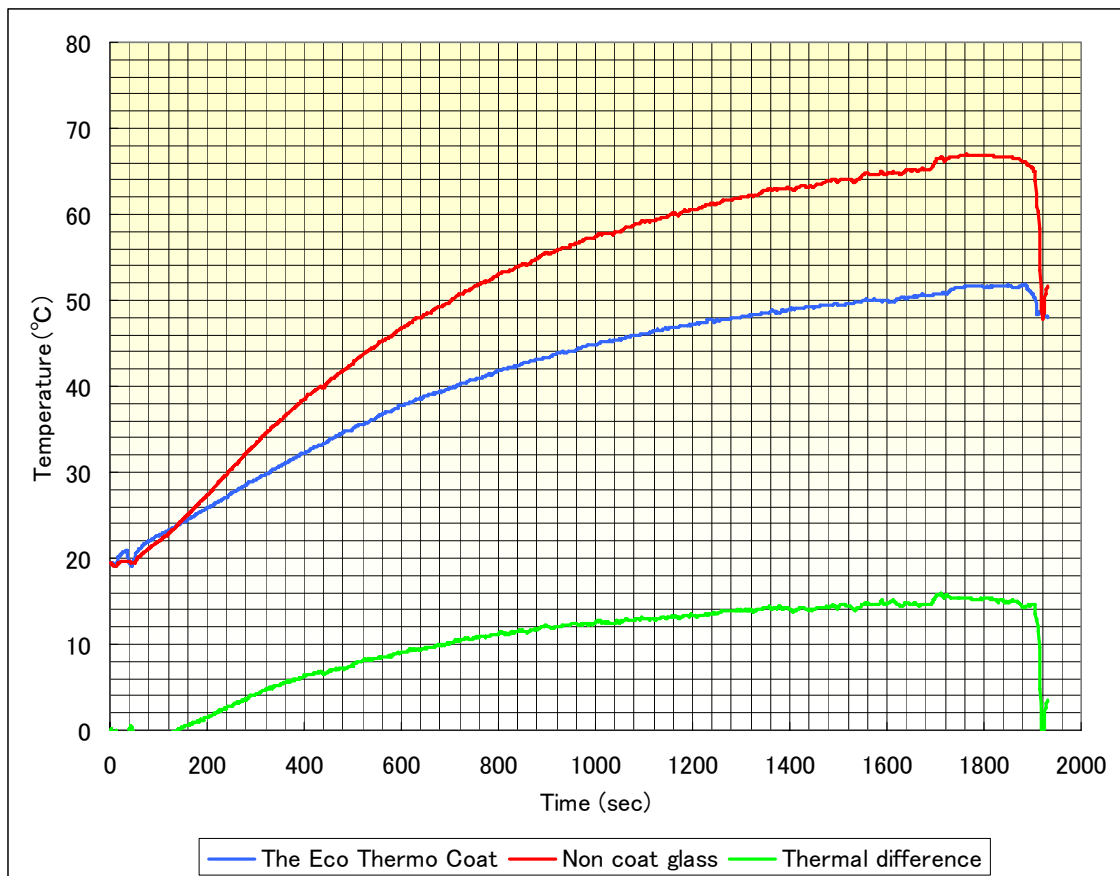
This graph is transmittance spectrum of dispersion by spectral photometer. Reduction of Infra red ray is 65.3%. However penetration probability of visible ray is 81.8%. It indicates to balance transparency with thermal barrier capability.

3. Performance confirmation

This performance data is confirmed to cut through amount of thermal infrared from Coated the Eco Thermo Coat on a glass and non-coat glass.

Result in such difference in temperature 15.9 degC maximum coated glass and non-coat glass.

Feeling temperature is able to get 5.1 degC maximum.



* This data is our actual measurement value. It is not guaranteed performance.

4. Transparency for glass

Several thermal barrier coats are usually colorized some green or dark color on coated surface.

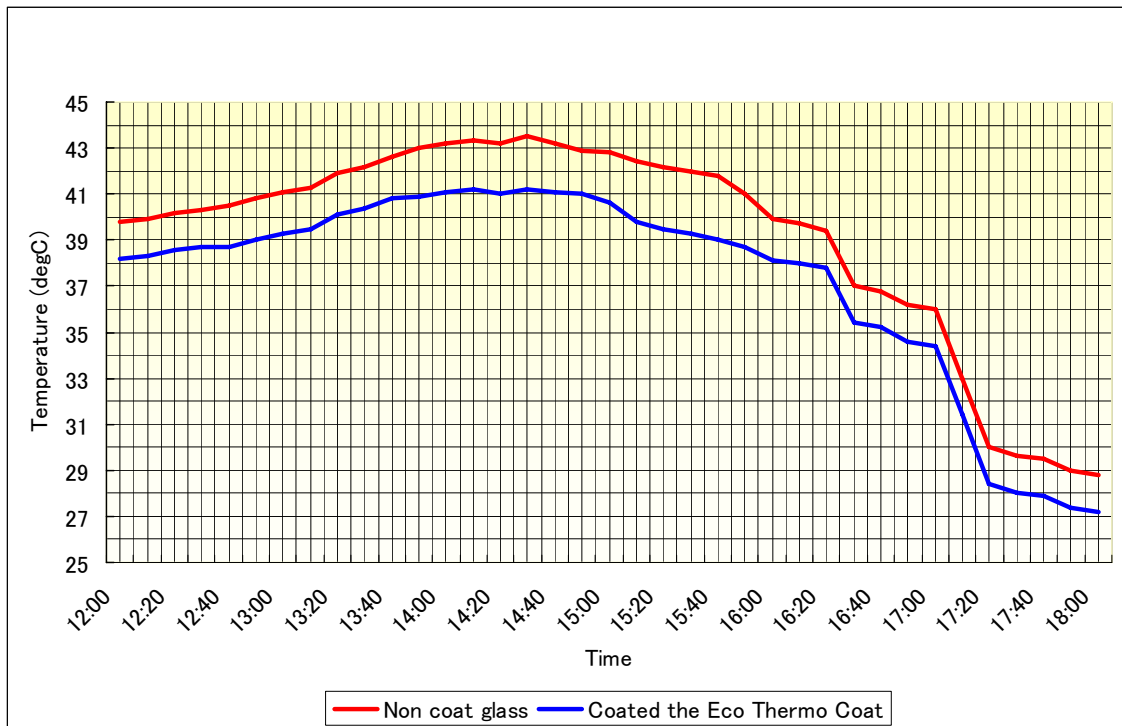
The Eco Thermo Coat is more high transparency than other products. This formed film is able to ensure transparency of glass windows.



Coated The Eco Thermo Coat condition	Non-Coat glass condition
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5. Field test of laboratory experiment

- (1) Date: 20. May. 2009
- (2) External temperature: MAX 31 degC Min 21 degC
- (3) Location: Marusyosangyo laboratory (floor area :26.4sqm)
- (4) Located condition: windows were subjected to direct sunlight.
- (5) Maximum temperature difference : 3.2 degC



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