

Environmental Technology Verification (ETV) Program Verification Test Result

What is the Environmental Technology Verification (ETV) program?

There are advanced environmental technologies that are ready for commercial application and are believed to be useful, but nevertheless are not yet being widely used simply because of the absence of an objective assessment of their environmental conservation effects, etc. The ETV program aims to establish the method and system to verify such environmental technologies and facilitate their spread, the preservation of the environment and the development of the environmental industry, with the third party implementing objective verification of environmental preservation effects, etc.

■ Conditions set for calculation

Building	Set Temperature Cooling	Operation Hours	COP for Cooling
Home	26.6	6-9, 12-14, 16-12	4.67
Office	28.0	7-21 on weekday	3.55

COP stands for Coefficient of Performance that shows the amount of energy output with 1kw of power consumption of air conditioner.

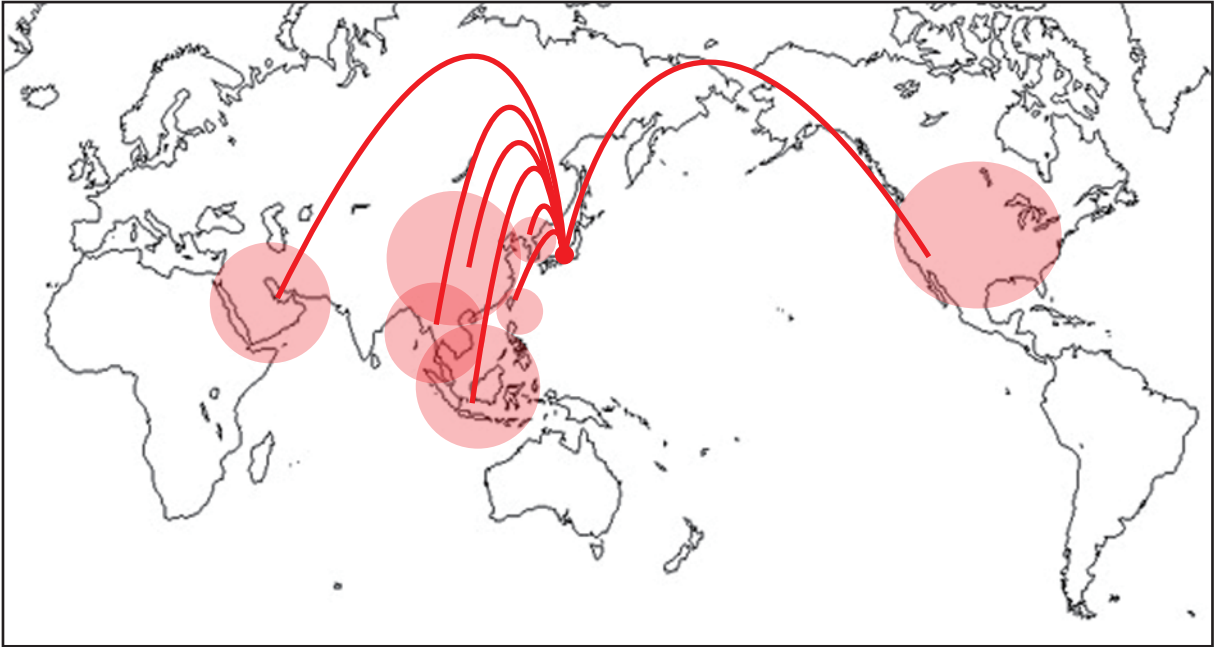
	General Description of Model Building
Home	Construction Material: Wood Gross Floor Area125.86m ²
Office	Construction Material: RC (Reinforced Concrete) Standard Floor Area826.56m ²

■ Calculation result of yearly effect on cooling load for home/office space

【Calculation Target: Home (whole building), Office (standard floor space)】

		Tokyo Metropolitan Area		Osaka Prefecture	
		Home (wooden, stand-alone)	Office (RC)	Home (wooden, stand-alone)	Office (RC)
Reduction of cooling load	Energy	-536kWh/year	-1,447kWh/year	-544kWh/year	-1,514kWh/year
(Yearly air conditioning)	Reduction rate	-27.7%	-21.9%	-24.1%	-19.4%

Needs for ZEROCOAT are everywhere in the world.



Contact

Exclusive Distributor

ZEROCON CO., LTD.

3-29-3 Tonouchi-cho, Amagasaki, Hyogo, Japan 661-0961
TEL : +81 6 6492 0659
URL : <http://www.zerocon.co.jp>
E-Mail : info@zerocon.co.jp

※ The contents of this catalogue are subject to change without prior notification due to product change.
The data and figures on this catalogue are the result of tests, etc. and are not guaranteed.



Energy saving window coating

ZEROCOAT®
ZC2000

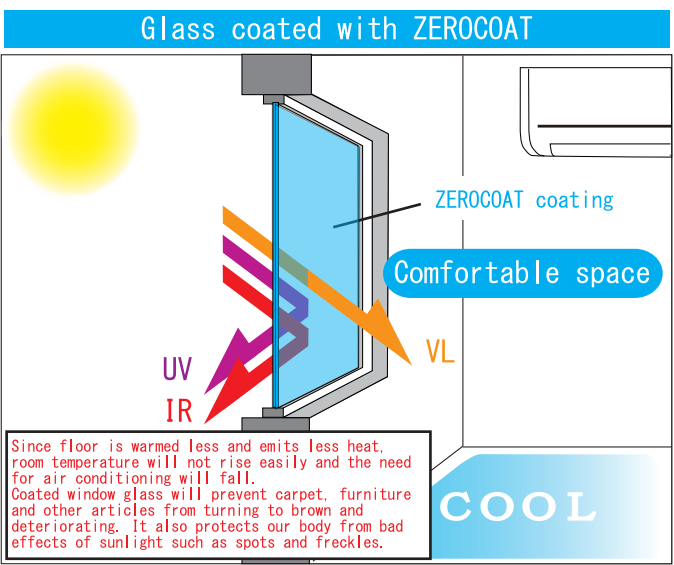
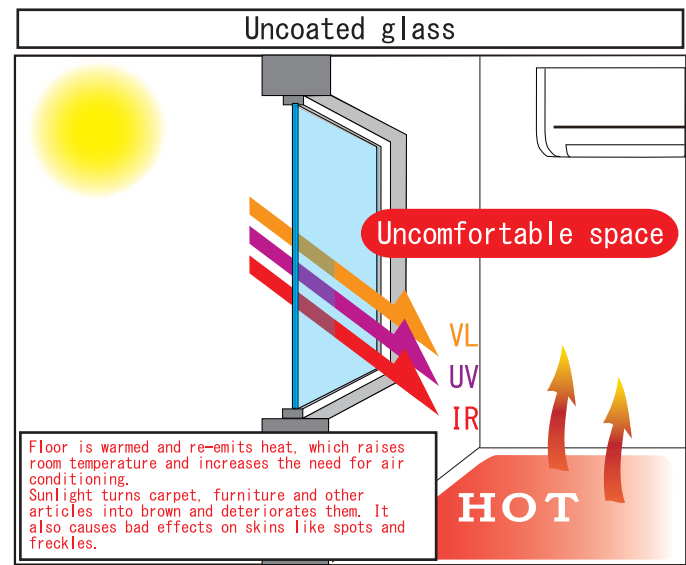


Conserve energy
by just applying

Lowering the set temperature of air conditioner by only 1°C can reduce 10% of power consumption. ZEROCOAT applied to window glass can cut over 90% of near-infrared rays which are the heat source. Once the window glass is coated, the temperature near it will fall by 5 to 10°C, resulting in substantial energy saving effect.

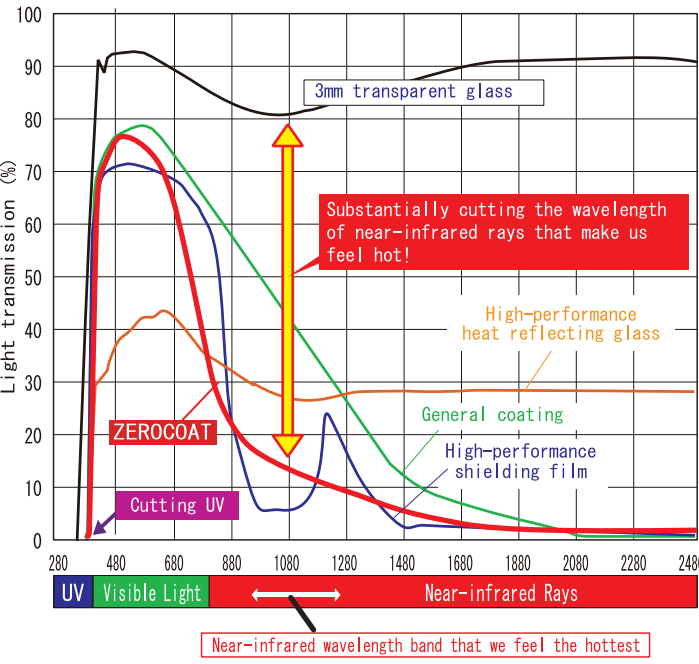
to window glass

Rise of room temperature can be curbed most effectively



High light transmission and excellent shielding ability

While permitting 75% of the wavelength band of visible light to permeate, ZEROCOAT cuts more than 90% of wavelength between 980nm and 1,280nm that gives us the most intense scorching feel among the wavelength bands of near-infrared rays.



	Transmission of visible light	Transmission of sunlight	Absorption of sunlight	Reflection of sunlight	Screening coefficient	Rate of cutting near-infrared rays	Rate of cutting ultraviolet rays
3mm transparent glass	90%	86%	8%	6%	1.0	20%	27%
ZEROCOAT	75%	42%	52%	6%	0.68	90%	97%
General coating	80%	58%	36%	6%	0.81	60%	95%
High-performance shielding film	70%	42%	37%	37%	0.61	90%	99%
High-performance heat reflecting glass	42%	34%	57%	9%	0.60	70%	80%

ZEROCOAT cuts 97% of transmission of harmful UV while permitting light to permeate.

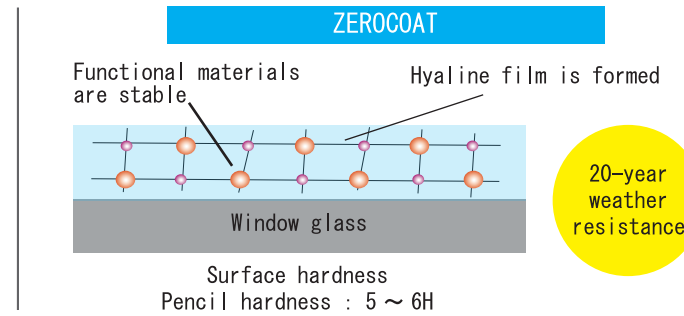
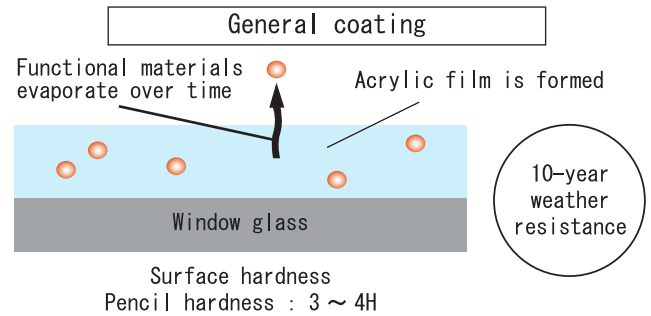
It prevents the browning and deterioration of carpet, furniture, etc. due to UV. Since ZEROCOAT also cuts the UV emitted from room lights during night, it is effective for repelling insects that are drawn to UV.



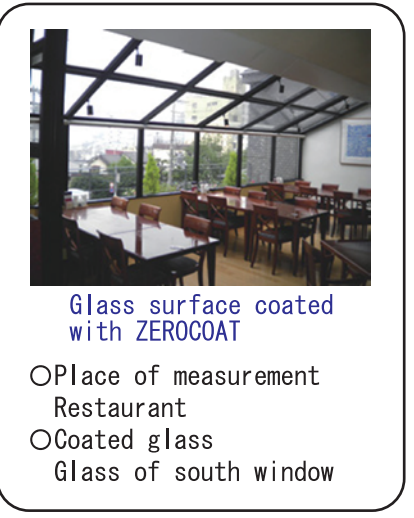
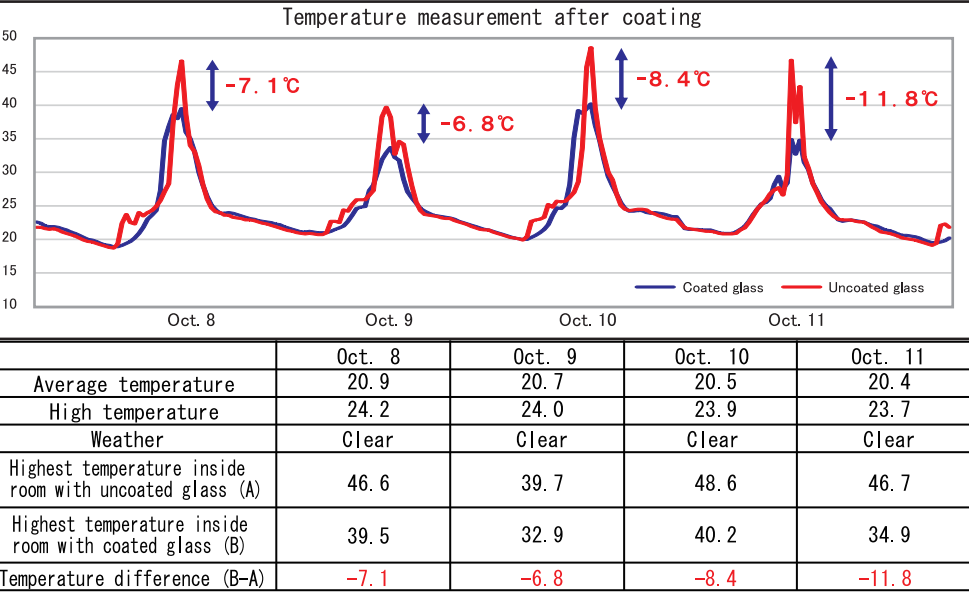
UV cutting effect

High hardness & high weather resistance coating film

ZEROCOAT is a siloxane compound coating film and chemically stable. It forms a hard coat layer with high density and hardness, providing hyaline coating that is highly weather resistant and hard to deteriorate.



Temperature measurement after coating



Serving various needs

