

Main attraction of
EnerCool Coat

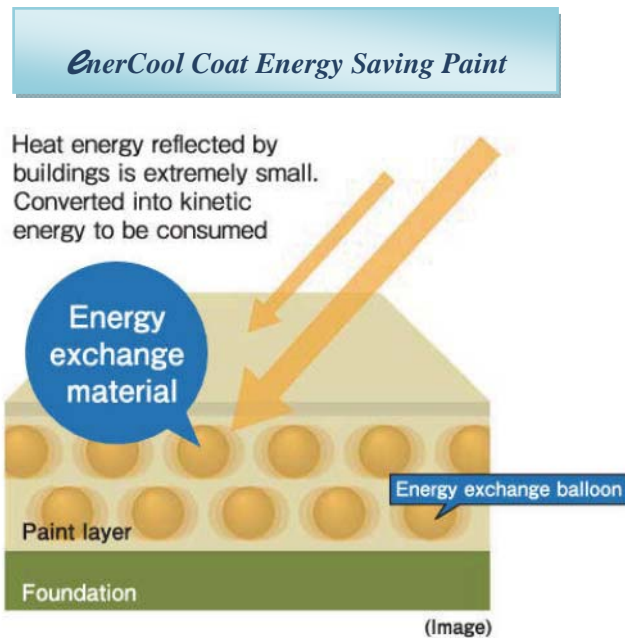
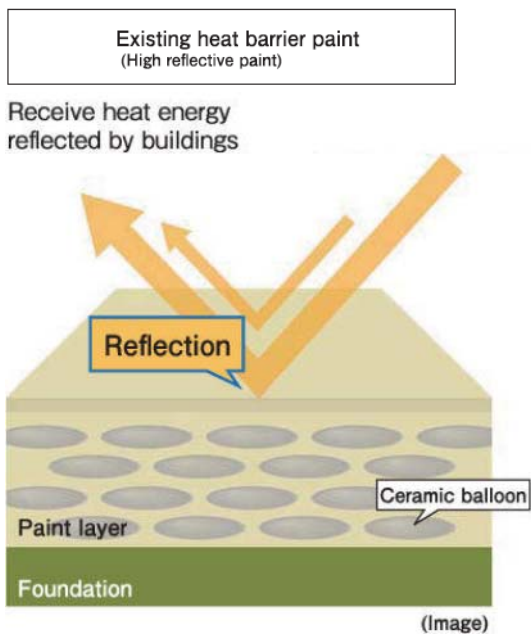
1

Heat barrier feature

Revolutionary energy exchange method to convert heat energy into kinetic energy to consume it

POINT

Differences from existing heat barrier paint!



Existing heat barrier paint reflects sunlight energy, drenching buildings. Then it reduces the change from light to heat energy. However, there remains the issue that reflected light energy changes to heat energy in some other places. If there are other buildings where light energy reflects, it is thought that heat energy is stored into it, and plants, if any, can die due to the

Heat barrier of *EnerCool Coat* Energy Saving Paint, different from existing heat barrier paint, doesn't reflect as much sunlight energy. The system is to convert light energy absorbed by the paint layer into kinetic energy to be consumed by the function of the special radiation material. As it only reflects a little light energy, there is no need to worry about the influence on the surrounding environment. In addition, it doesn't stock heat in the paint layer and it reduced generation of radiant heat sources from painted surfaces.

※What is radiant heat?

Heat radiated from the walls or floors. In urban areas, radiant heat from walls of buildings is huge and it is one of the causes of the heat-island phenomenon.

Main attraction of
EnerCool Coat

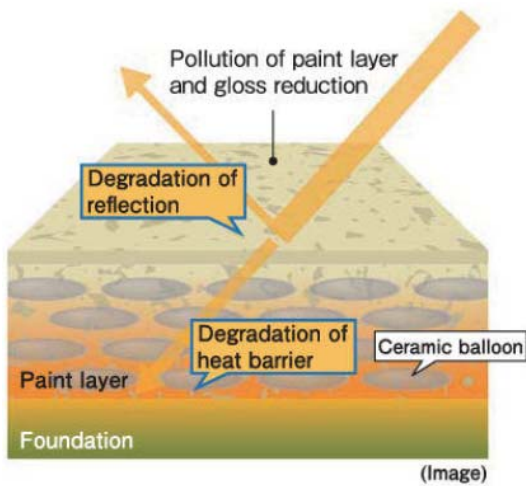
2

Long life high durability

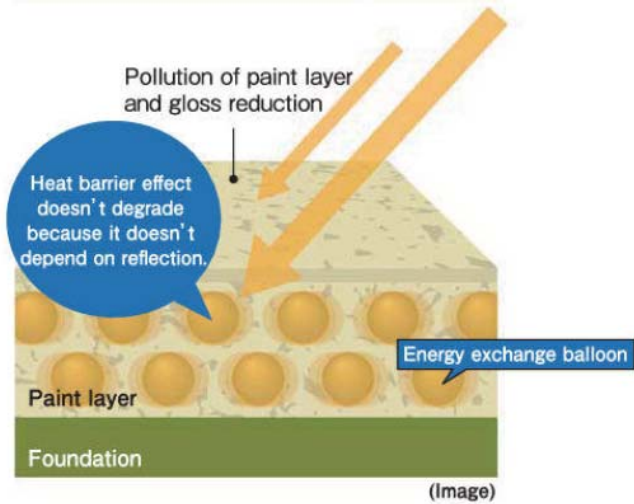
Stable heat barrier effect which will not degraded by stain, scratch and wear – Highly durable paint!

POINT
Differences from existing heat barrier paint!

Existing heat barrier paint
(High reflective paint)



EnerCool Coat Energy Saving Paint



Existing heat barrier paint
(High reflective paint)

Heat barrier effect degrades as time passes

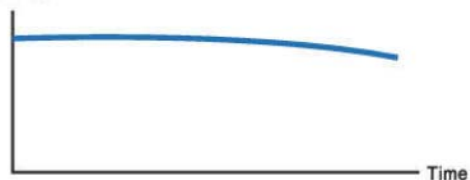
Heat barrier effect
(100%)



EnerCool Coat Energy Saving Paint

Keeping heat barrier effect for long term

Heat barrier effect
(100%)



As heat barrier of *EnerCool Coat* Energy Saving Paint doesn't depend on reflection as much as the existing heat barrier paint, [the effect of heat barrier isn't degraded by pollution of the surface or gloss reduction](#). Also it doesn't need gloss, is cheap and expanded plastic can be used for the topcoat of roofs or waterproof layer. It is a cost-effective paint, suitable for such times of environmental awareness.

Main attraction of

EnerCool Coat

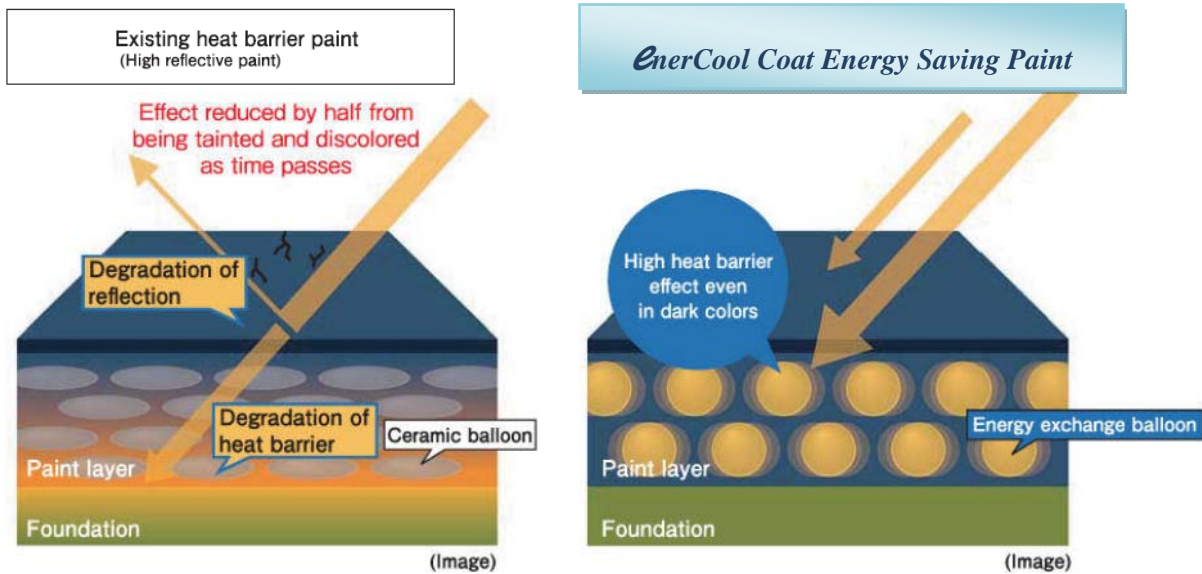
3

Hue Retention

High heat barrier effect even in dark colours
Demonstrate the effect of hue retention

POINT

Differences from existing heat barrier paint!



In the case of the commonly used heat barrier paint, the heat barrier feature is generated through the strong reflection of light. Hence it can't produce satisfactory effects in dark colours which reflect little light.

EnerCool Coat Energy Saving Paint converts light energy into kinetic energy to consume it, hence it is able to produce the heat barrier effect even in dark colours. Comparing to the existing heat barrier paint, the choices of colour are more. Heat barrier paint reduces the effect by half due to stain or discoloration, etc. as time passes.

Application Reference



Exterior Wall



Exterior Wall



Tin roof



Waterproof roof



Playground equipment



Poolside



Elementary School



Bridge

Poolside Result



EnerCool Coat on
asphalt



Heat reflective paint
on rubber chip



Rubber sheet without
paint on poolside

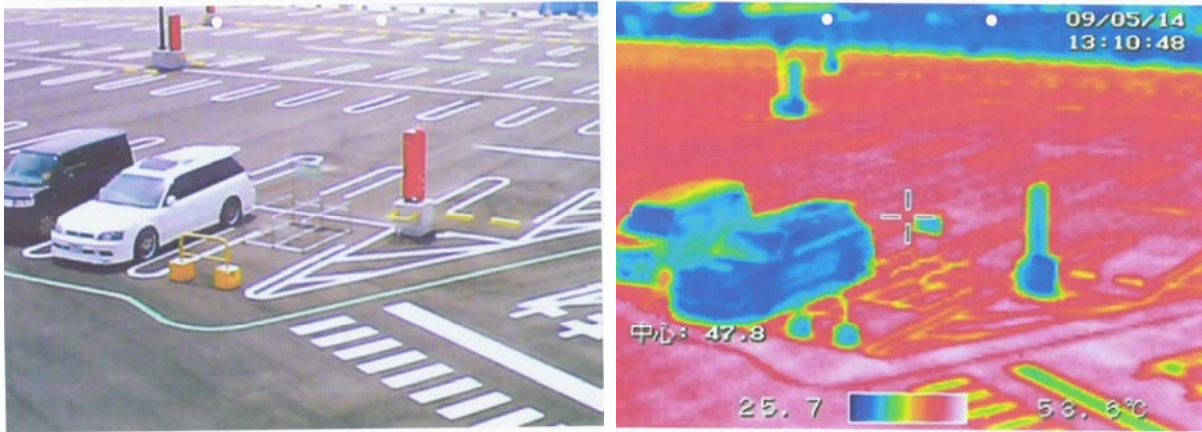


Poolside

Temperature differences according to thermograph

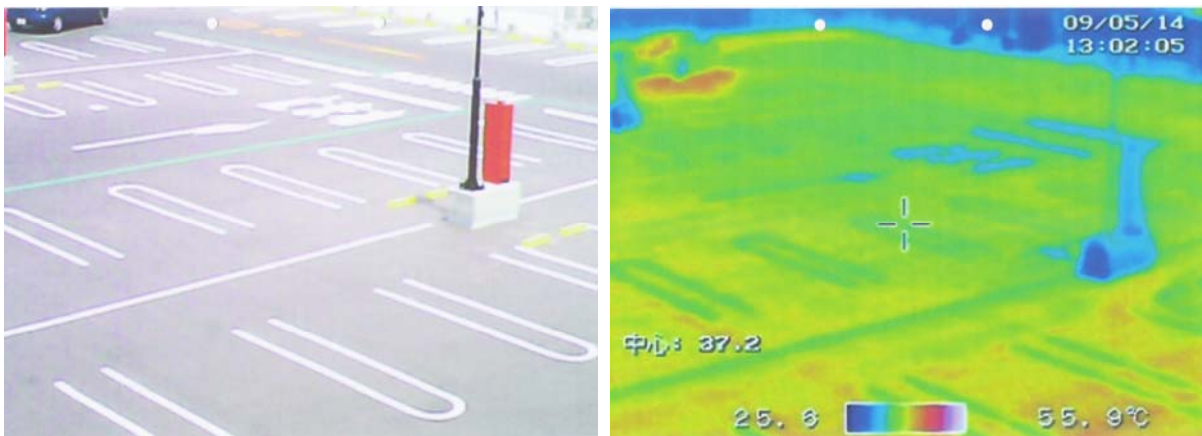
Parking lot:

Before -



Before applying *EnerCool Coat*, the average temperature is around 47.8°C.

After -



After applying *EnerCool Coat*, the average temperature dropped tremendously to around 37.2°C.