

Other products in the *chirucoat*® lineup

RC (Rust Conversion)

Single-pack Water-borne Rust-converting Primer

A high-performance water-based rust converter that is free from organic solvent regulations. By applying it directly to progressing (unstable) red rust, it chemically converts the rust into stable black rust. The dense protective film suppresses further corrosion.

WIP (Woodworking Inorganic Paint)

Impregnation Type Inorganic Ceramic Coating for Wood

It provides water, oil, and stain resistance without compromising breathability, enhancing the lifespan and hardness of wooden structures and woodcrafts.

LFP (Luminous fluorescent paint)

Water-borne Luminous and Fluorescent Coating

Fluorescence: Reacts to light, making colors appear vibrant in bright areas.

Phosphorescence: Releases stored light energy to self-illuminate, allowing it to glow in the dark.

SUC (Special Under Coating)

Optimized Base Coat for *chirucoat*



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Contact Us

SOLVE ENVIRONMENTAL PROBLEMS with the *chirucoat*® SERIES!



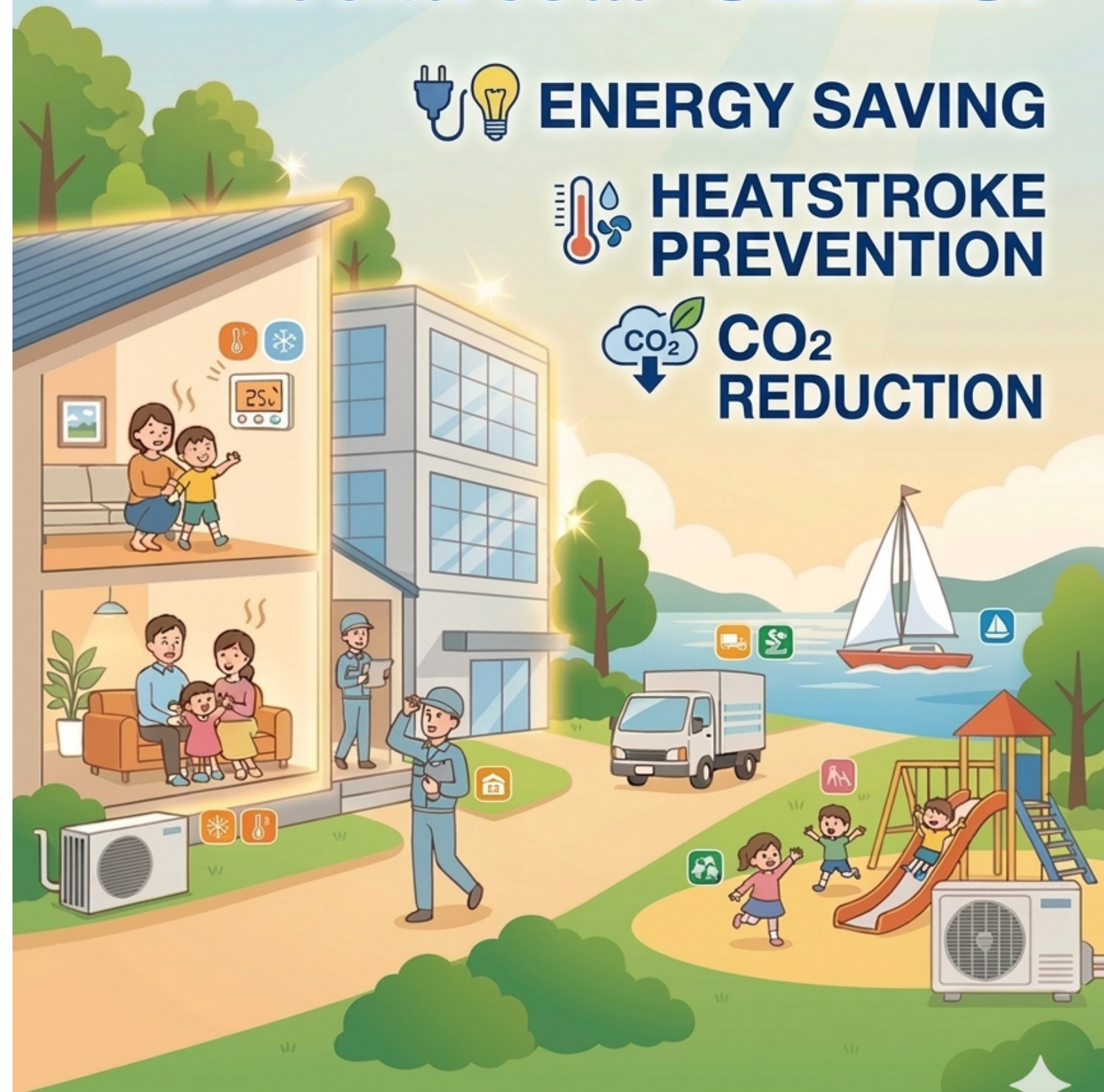
ENERGY SAVING



HEATSTROKE PREVENTION



CO₂ REDUCTION



"A Truly Functional Coating for Peace of Mind: Eco-friendly, Human-friendly, and Transforming Environments Simply by Applying."

Our planet Earth thrives thanks to the blessings of solar radiation traveling from the sun, approximately 150 million kilometers away. We are truly fortunate to receive this vital energy. However, it is also a fact that this same energy significantly impacts our living environment. Indoor temperatures rise due to heat transfer through roofs and walls, as well as solar radiation penetrating window glass. Specifically, the action of infrared rays (electromagnetic waves) causes indoor surfaces—such as floors, walls, and ceilings—to heat up, creating radiant heat that warms the interior. Furthermore, direct exposure to solar radiation raises body temperature, which can be a primary cause of indoor heatstroke. For the sake of the global environment, energy conservation and CO2 reduction have become essential. As a vital countermeasure against heatstroke, "solar-reflective thermal barrier coatings" that prevent heat buildup on building exteriors have become mainstream. In addition, "colorless and transparent thermal barrier coatings" developed specifically for window glass are now crucial for comprehensive heat protection.

chirucoatHSP High Diffuse Reflection Non-Hollow Heat-Shield Coating

WORLD'S HIGHEST LEVEL OF SOLAR REFLECTANCE: 94.7% (Max)

HEAT SHIELDING
CO2 REDUCTION
WATER-BASED, SAFE AND SECURE
COATING APPLIED TO INTERIOR CEILING AND WALLS
IMPROVED THERMAL INSULATION
INCREASES BRIGHTNESS BY REFLECTING LIGHT (ILLUMINATION)
THE COATING DOES NOT ACCUMULATE HEAT
Does not accumulate heat.
HEAT STROKE PREVENTION
CO2 REDUCTION
chirucoatHSP

By combining high heat-shielding properties that prevent heat generation from sunlight with low thermal conductivity, it excels in thermal insulation. It also prevents external deterioration and is suitable for interior coating. It is superior for "CO₂ reduction and heat stroke prevention through energy savings." This is "High Diffuse Reflection Non-Hollow Heat-Shielding Water-Based Coating," which does not accumulate heat.

Colorless, Highly Transparent Heat-Shield Coating *chirucoatHSG*

Glass **Wired Glass** **Acrylic** **Polycarbonate**

FEATURES

- Colorless & Highly Transparent**
The ultimate transparency and heat-shielding performance: maintains natural light without obstructing the view.
- Heat Shielding**
Cuts infrared rays, suppressing indoor temperature rise.
- UV Cutting**
Cuts ultraviolet rays, preventing furniture and interior fading.
- Comfortable with both Infrared and UV protection. Also suppresses condensation for easy maintenance.**

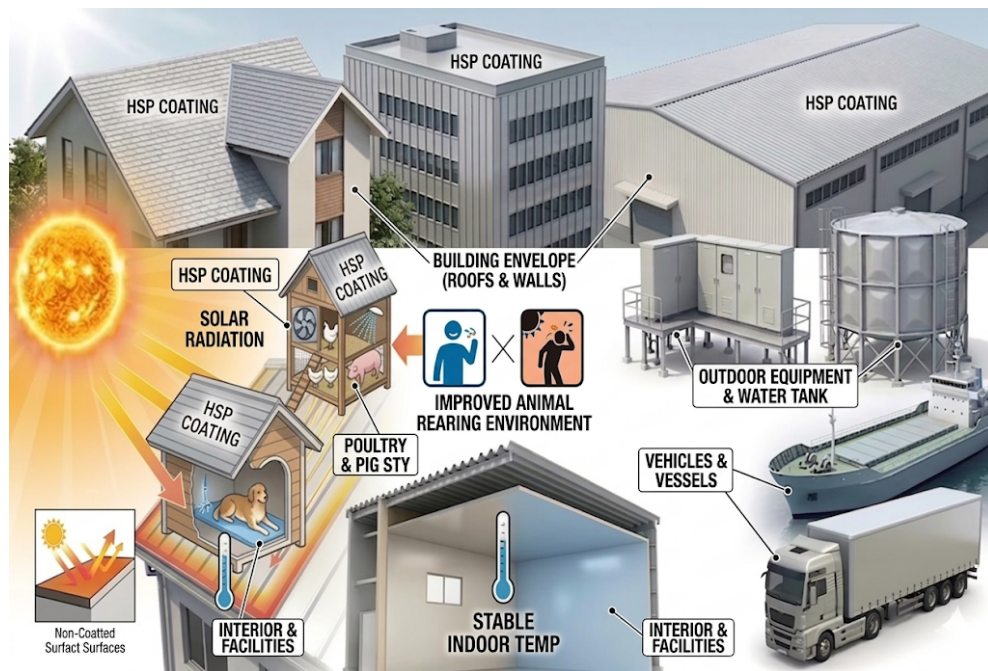
APPLICATION TARGETS

- Building Windows & Glass Doors & Skylights**
Residential, Offices, Shops, Factories, etc.
- Vehicles**
Automobiles, Trains, Buses, Trucks, etc.
- Marine Vessels**
Vessel window glass, bridge, cabins, etc.
- Observation Cabs (Play Equipment)**
Observation cab windows, transparent panels, etc.

chirucoatHSG

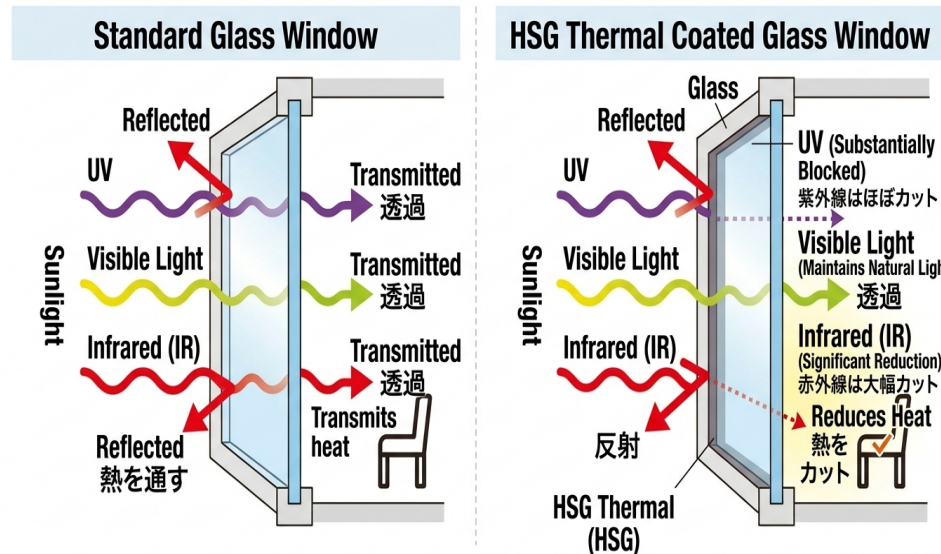
Tested by Japan Paint Inspection and Testing Association

HSP (W1)	Solar Reflectance (%)	
	Mean	Maximum Value
Solar Spectrum Wavelength Range		
Full Spectrum	86.9	94.7
300~2500nm		
UV - VIS	86.6	
300 ~ 780nm		
Infrared (IR) Range	87.1	
780 ~ 2500nm		



Durability: Approximately 10+ years* *The service life is an estimated value based on testing and is not a guaranteed period. Performance remains stable over the long term.

Comparison of Solar Heat and UV Transmission Suppression



Tested by Japan Paint Inspection and Testing Association

Solar Transmittance	Glass	HSG Application Rate	
		10g/m ²	20g/m ²
Untreated			
Ultraviolet	89.954	0.031	0.006
Visible Light	90.814	86.978	84.161
Infrared	87.704	0.442	0.168