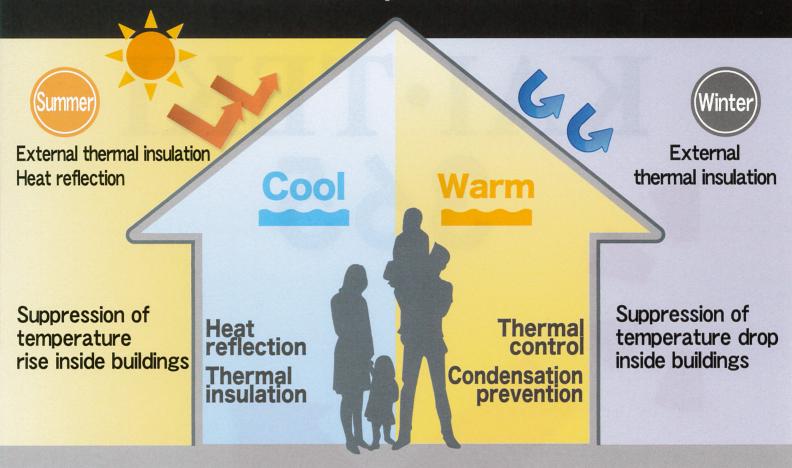
Heat reflection, Thermal insulation paint



KAI-TEKI 365

Thermal insulation Heat reflection Thermal control Condensation preventionention





Power consumption for cooling cut by 30% to 40%

Efficiently blocks solar infrared radiation to enhance the cooling effect and keep buildings cool inside in the summertime. Reduces room temperature by 2° C to 6° C, or even more.

Power consumption for heating cut by 20% to 40%

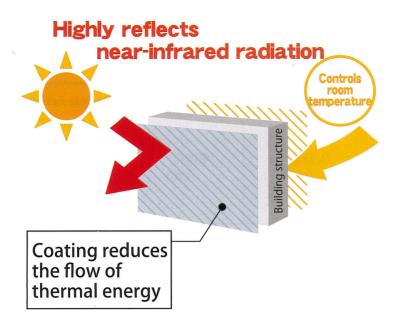
Avoids heat loss from buildings in the wintertime with the thermal insulation property of special acrylic beads contained in paint at a high density and improves heating efficiency of interior spaces.

Also suppresses condensation to prevent mold growth.

Applications of KAI-TEKI 365

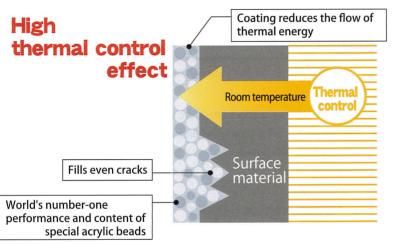
KAI-TEKI 365 can be used in various places including factories/plants, warehouses, public and commercial facilities, hospitals, schools, hotels, condominiums, offices, temples, container houses, garages, private houses, livestock barns, ships, temporary toilets and tents.





Heat reflection effect

Heat-blocking pigments that form the coating reduces the surface temperature by reflecting solar heat (near-infrared radiation). Blocking hot summer heat improves the cooling effect.



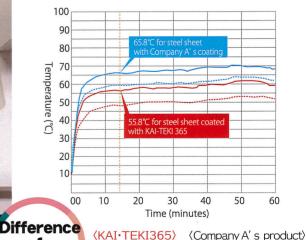
Thermal insulation effect

Special acrylic beads contained in the coating at a high density suppresses thermal conduction, i.e. heat transfer from a high temperature region to a low temperature region.

This keeps room temperatures at comfortable levels both in summer and winter.



Demonstration experiment for thermal insulation and heat reflection



Comparison with
Company A's product

point

When heated with a 100-watt incandescent bulb, the surface temperature was 10°C cooler for a steel plate coated with KAI-TEKI 365 than for that with Company A's coating.

Note: Actual results vary depending on the room temperature and outside air temperature.

In the experiment, a steel plate was heated with a 100-watt light bulb.

Front side Back side Front side

-- Back side

10℃

Results showed a temperature difference of about 10° C between KAI TEKI 365 coating and Company A's coating.

Note: Actual results vary depending on the room temperature and outside air temperature.

KAI·TEKI 365 Product Specifications

Name of paint		Content	Density	Coverage	Applicable surfaces, etc.
KAI • TEKI 365	HATTEN 3AS 3AS	12 kg	0.3kg /m²	40m² /can	Applicable to any typse of surface
KAI•TEKI 365 Al Sealer	MATTER STATE OF THE STATE OF TH	15 kg	0.05~ 0.2kg /m²	75~ 300m² /can	

Caution: Acrylic beads float on the top of the paint, so stir well with a power mixer before applying.

Note: The can's design may change without prior notice.

Surface preparation

- *Remove all loose coating, grease, laitance, etc. by rinsing with high-pressure water or using a deck brush, etc. to obtain a clean surface.
- *Remove rust completely and apply rust inhibitive primer. *Make sure to have a good ventilation when working indoors.
- *Dry the surface thoroughly if it's wet due to rain or condensation. *Smooth out the surface.
- *Consult us if a separate sealer/primer process is required due to the surface conditions.

Recommended airless spray gun



One with a tip type of 2350 or 2650 is recommended.

Recommended roller





Manufacturer: Sato Sangyo Co., Ltd.

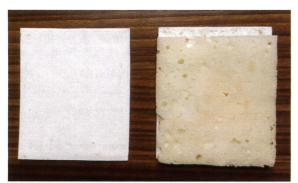
Product name: Mini SATTO roller (pink, DX, Vega)

Comparison Experiment with Thermal Insulation Materials

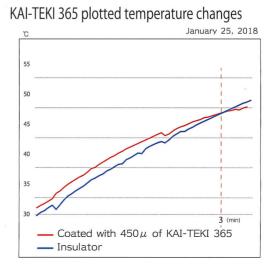
strong point

In a comparison experiment, a steel sheet coated with 450 μ of KAI-TEKI 365 and polyurethane foam insulation having thickness of 10 mm were heated with a 100-watt incandescent bulb. As a result, the surface temperature became lower for KAI-TEKI 365

after 3 minutes.



KAI•TEKI 365 Specimen + Insulator
(10 mm-thick polyurethane foam)



Strong point of KAI • TEKI 365



High thermal insulation property

Industry's number one

Thermal conductivity of 0.09 w/(m·K)



Solar reflectance is 90% (for white paint). * Near infrared wavelength range

Simple application of KAI-TEKI 365 offers pleasant interior spaces that are cool in summer and warm in

The industry's number one insulation property.
Reduces the surface temperature of corrugated roof by 20°C to 30°C.
Thermal conductivity of 0.09 W/ Inhibits condensation.



High elastic property

Rubber-like elasticity

Coating elasticity of 250% or more



With elasticity of 250% or more, the coating stretches like rubber and endures folding.

Prevents water from intruding cracks in the building.

Allows moisture to prevent the deterioration of exterior walls.



This depends on the actual conditions. Weatherability for many years

Exhibits weatherability for about 20 years

Protects buildings with high weatherability



Undergone an accelerated weathering test (JIS K 5600 7-7) for 5,000 hours.

Protects buildings for many years without cracking, bulging, peeling or discoloration of the paint.

Makes the cycle of repainting and repair/renovation longer, resulting in lower maintenance costs.



Strong adhesion

Adhesive strength lasting many years

Adhesive strength four times greater than general coating



In an adhesion test (JIS K 5600 5-7), KAI-TEKI 365 produced a value of 2.2 MPa, as opposed to 0.5 MPa or more for general paint materials.

Applicable to all types of surface without peeling for many years.



Thermal comfort inside buildings

Cuts power consumption of air-conditioners by 20% to 40%



Thermal insulation effects of special acrylic beads help lower room temperatures by 5°C or more in

Thermal insulation also prevents heat escapes from buildings and even from chilling after the air-conditioners are turned off.

More efficient air-conditioning helps reduce power bills.



Good for the environment

Eco-friendly water-based paint





KAI-TEKI 365 is a single-component water-based paint.

Produces no odor, thus eliminating the possibility of causing troubles in the neighborhood.

Protects buildings from damages caused by nature so that their performance and quality is maintained to keep their aesthetics.

Contributes to energy saving to reduce CO2 emissions.



Soundproofing function

Less noise, less stress



Special acrylic beads contained in KAI-TEKI 365 reflect and dampen vibrations of sounds.

Reduces all sorts of noise produced by automobiles, musical instruments, human voices, etc. in daily life to make it less uncomfortable.



Energy-saving in both hot and cold regions

Condensation control

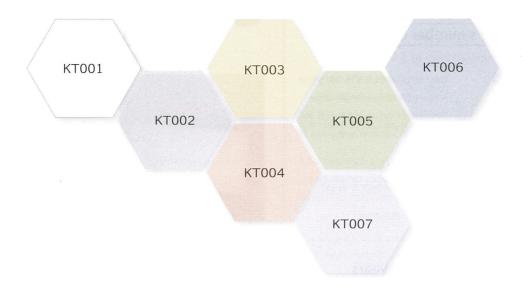


Coating of KAI-TEKI 365 has a characteristic to adapt to changes in the ambient temperature.

Thus, condensation is suppressed to prevent the corrosion of construction materials. Moreover, the product absorbs ultraviolet rays, thereby protecting buildings from deterioration caused by these rays.

It prolongs the life of buildings, resulting in economic benefits.

KAI • TEKI 365 Color variations



- *Colors can be chosen from the sample color book published by the Japan Paint Manufacturers Association. For details, consult local dealers.
- *Thermal insulation effect lessens as the color gets darker.
- *Due to printing, the colors shown here may differ from actual ones.

KAI • TEKI 365 painting specifications

Waterproof surface

Steel sheet roofs, etc. (Good adhesive strength requires no surface treatment.)

*Roughening and rust inhibitive primer is needed separately.

Main paint: KAI•TEKI 365 Recoating interval: 4 hours (depending on weather conditions) Applications: 2-3 times

Dilution ratio: 0-3% Time required for complete curing: 24-hours Painting tools: Brush, roller, airless spray gun

Non-waterproof surface

Slates, siding boards, Color Best roofs, concrete, mortar walls, etc.

Top coat: KAI • TEKI 365 Recoating interval: 3-4 hours (depending on weather conditions) Applications: 2-3 times

Dilution ratio: 0-3% Paint interval completely cure: 24-hour Painting tools: Brush, roller, airless spray gun

Waterproofing / Waterproof sheet foundation

Urethane waterproofing, vinyl chloride waterproofing sheets, etc. on the rooftop

Recoating interval: 3-4hours (depending on weather conditions) Applications: 2-3 times Top coat: KAI • TEKI 365

Dilution ratio: 0-3% Paint interval completely cure: 24-hour Painting tools: Brush, roller, airless spray gun

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