



UNI Cool is paint for heat dissipation using heat radiation. It increases the thermal emissivity of base materials.

(Example: Aluminum 0.02 to 0.9 after coating)

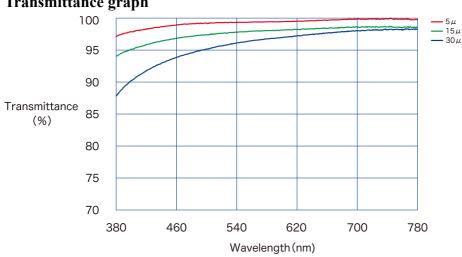
As a result, it is possible to decrease the base material and ambient temperature.

In addition, because it is transparent paint with total light transmittance no less than 90%, it may not impair the design of the base preparation.

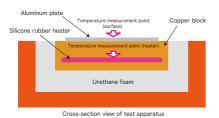
<Features of UNI Cool>

- 1. It is paint for heat dissipation using heat radiation. It has a characteristic to radiate heat to the lower environmental temperature side.
 - It has also a characteristic to absorb infrared rays; therefore, it is possible to absorb heat by applying it inside an enclosure. Thermal emissivity is about 0.9.
- 2. There are 10 different types of paint according to the application. Heat dissipation performance is the same for all.
- 3. Because it is transparent paint, it can be applied to reflectors and transparent materials.
 - * Coating on resin does not have as much of a heat dissipation effect as coating on metal.
- 4. Because it is paint, it can be applied to any portion.
- 5. Air drying type paint is also available for different types of base materials.
- 6. It has a heat radiation characteristic equivalent to alumite's.
- 7. Paint made of non-hazardous materials is also available.
- 8. It is non-conductive (volume resist: 10^{11} to 10^{13}).
- 9. Complies with RoHS Directive and REACH Regulation.

Transmittance graph



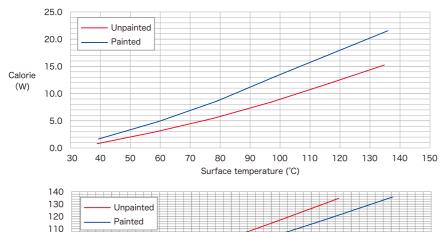
<Example of UNI Cool test>

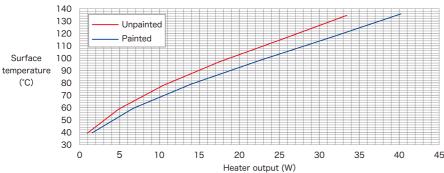


An aluminum plate (100 mm x 100 mm, 0.5 mm in thickness) was attached to a heater block, and the heater temperature and aluminum plate surface temperature were measured when putting a load over on the heater (at room temperature of 24° C, humidity of 55%).

The following aluminum plate was used.

(Virgin, coated with paint for heat dissipation: lacquer type)





* The above values are for reference only, but not normative.

The effect may change according to the size and type of base material used, and the environment of use.

<List of paint type>

Product No.	Description
UC-001	Lacquer type: air drying (pencil hardness: B)
UC-011	TX free type: air drying (opaque) (pencil hardness: 3B to 2B)
UC-002	Baking type: baking at 160°C for 20 minutes (pencil hardness: B)
UC-012	Heat and weather resistant type: baking at 180°C for 30 minutes (pencil hardness: H)
UC-022	Heat and weather resistant type 2: baking at 200°C for 30 minutes (pencil hardness: HB to F)
UC-032	Heat and weather resistant type 3: baking at 180°C for 30 minutes (pencil hardness: B)
UC-003	Water-based type 2: air drying (pencil hardness: B)
UC-013	Water-based urethane type: air drying (pencil hardness: HB), Non-hazardous material
UC-023	Water-based acrylic silicone type: forced drying at 180°C for 30 minutes (pencil hardness: 2B), Non-hazardous material
UC-005	UV-curing type: UV curing (pencil hardness: 2H), Primer is required separately.

- Information in this document is subject to change without notice due to continual improvements.
- Be sure to read the material safety data sheet (MSDS) before using this product.



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