

Thermal Barrier Sheet (Mirror Star)

Patent-Pending Technology

New Product !

To reduce the internal temperature rise caused by solar radiation ,
JUST STICK IT ON !

Feature

- Easy to stick and Reworkable.
- This product does not use glue, so the adhesive surface is not contaminated.
- High solar reflectance and high weather resistance
- Using Thermal Barrier Paint made in Seiwa : E18X-S150 series
- Can be cheaper than installing with Thermal Barrier Paints.
- Made from eco-friendly acrylic resin and PET.



Applications

Outdoor control panels
communication repeaters
power storage devices, etc.

Specification

Color	Beige
Size	980mm(Effective Width:950mm) × 10M
Model number	1M length : E18MB-1M 10M length : E18MB
Solar Reflectance	88.0% (NIR wavelength:780nm~2500nm)
Thickness	235μm

Please note that the content of this description is subject to change without notice due to improvements or other reasons.

Rev.02

星和電機株式会社
SEIWA ELECTRIC MFG. CO., LTD.

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For orders and enquiries about products, Please Write down.

Oversea Department:

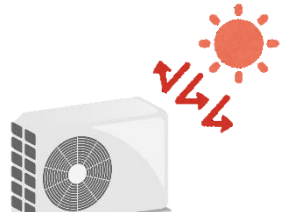
〒111-0052 YANAGIBASHI FIRST BLD 10F , 2-19-6, YANAGIBASHI TAITO-KU, TOKYO
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Characteristic

Test1

Comparison of temperatures with and without Mirror Star (MS) installed on outdoor units.

A difference of approximately 20°C was found.



Temperature measurement point

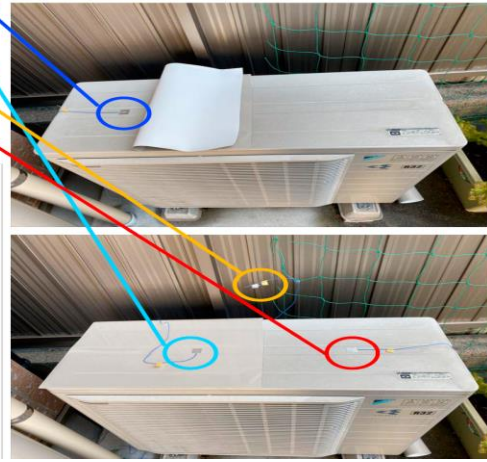
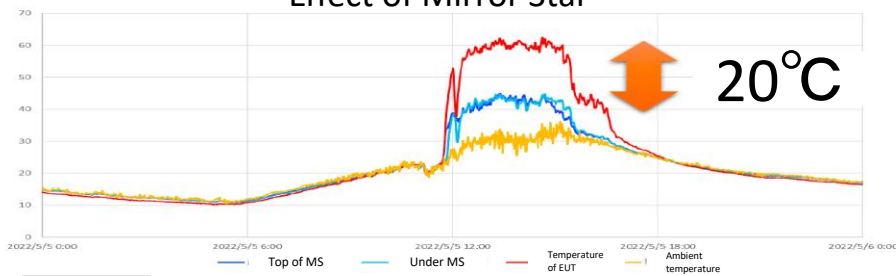
Under the MS

Top of the MS

Ambient temperature

Temperature of EUT

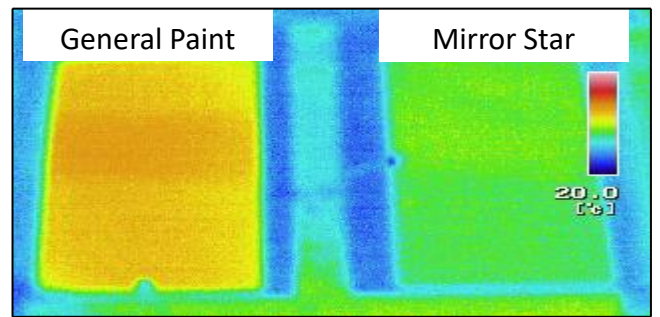
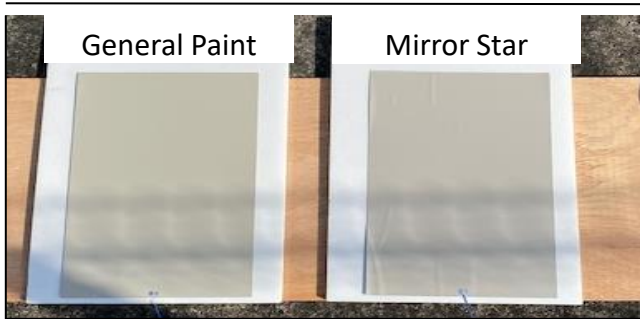
Effect of Mirror Star



Test2

Outdoor Exposure Test

Samples coated with general paint - Comparison with samples with Mirror Star attached.



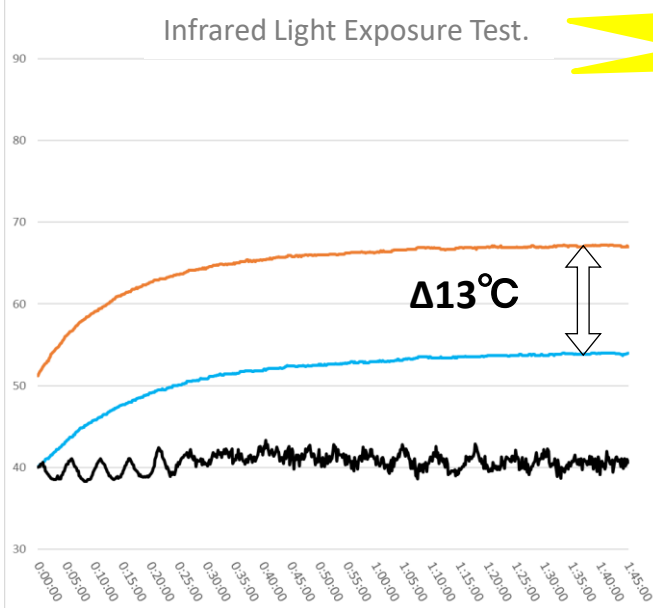
300µm galvanized steel sheet

Test3

Infrared Light Exposure Test. (P20-55BA by Nitto Kogyo Corp.)

Constant temperature Oven: 40°C / infrared light exposure (1120W/m²)

Measurement of BOX space temperature



By attaching the Mirror Star.
The temp. rise is reduced by 13°C.

