



TLC

Tech Logic Corporation

GUARDIAN 200

High-Performance Thermal Insulation paint

insulation
prevents dew condensation
energy saving
sound reduction



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GUARDIAN 200 Insulation Paint

Product Introduction

Guardian insulation paint provides insulation, dew condensation prevention, energy-saving, and sound reduction at the same time. Also, it has a semi-permanent duration.

Product Application



industry



Construction



livestock industry



vehicle

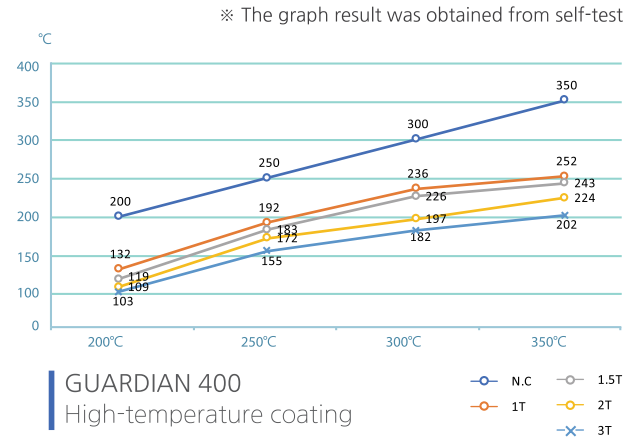
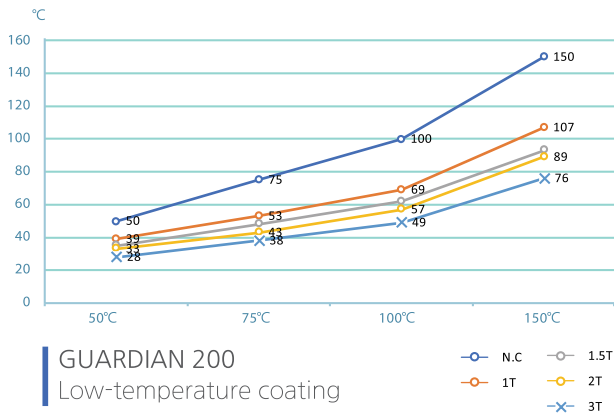
Characteristics of the Product

Color	Bright white (other colors can be added)
Applicable materials	Metal, Cement, Wood
Composition	single component
S.V.R	75%
Dried thickness	minimum 0.5mm
Times to repaint	2~3 times
Drying time	Minimum 6 hours at 1mm thickness and 25℃
Shelf life	6 months at 5~35℃





Insulation



Product Application

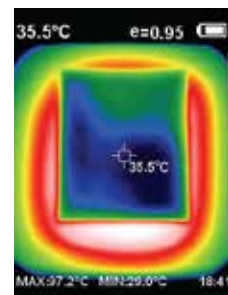
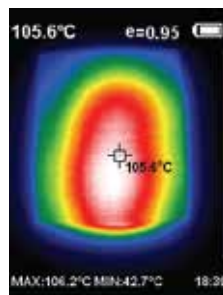
Before and after
(COOL ROOF Effect)

Guardian insulation paint prevents thermal losses in the summer and winter effectively by reflecting sunlight and blocking coldness.



Temperature comparison
before and after applying the paint

Simple paint shows a significant difference. It has a high resistance to thermal shock and reduces the damage from various chemicals.



GUARDIAN insulation paint can replace asbestos and glass fiber, and reduce the thickness of the wall. The coating survives for a long period without problems such as thermoset and it helps save and/or replace maintenance cost.



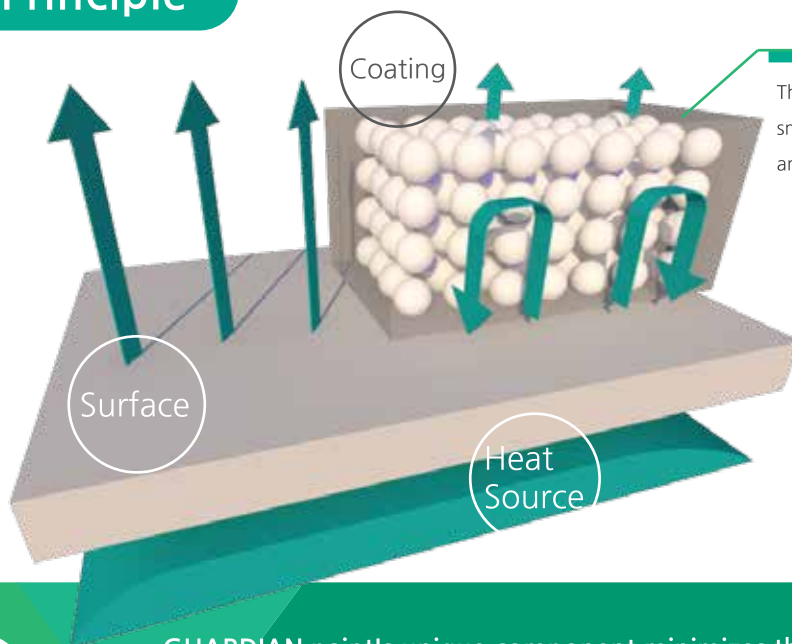
Anti-Dew Condensation

TEST

GUARDIAN insulation paint reduces the damage from dew condensation. It is the perfect product for a narrow space where hard add thick insulation materials.



Principle



The layers consisted of hollow ceramic microspheres smaller than $10\mu\text{m}$ block and minimize the heat flow, and reduce the temperature gap between the inside and outside.

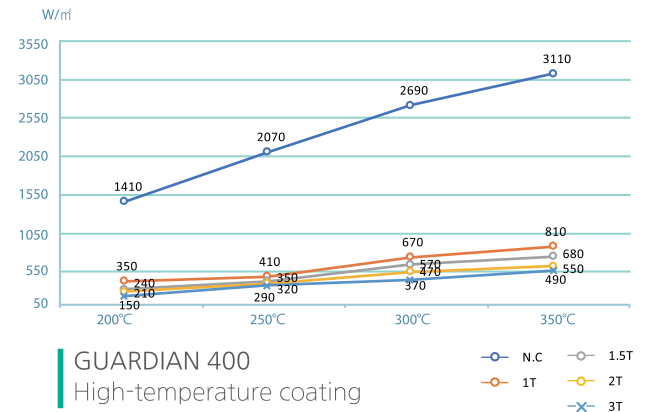
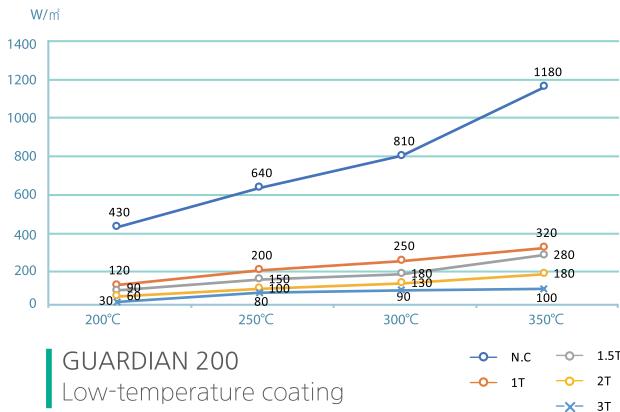


GUARDIAN paint's unique component minimizes the temperature gap and reduces dew condensation dramatically. It reduces the damage from moisture and mold in industrial sites and houses. Also, it helps to control the temperature and humidity of the air.



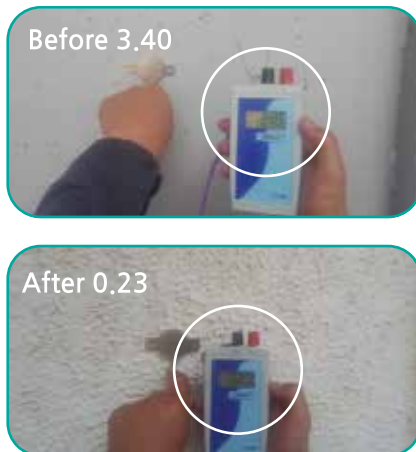
Energy Saving

※ The graph result was obtained from self-test



Before & After

Before & after on wall



With and without coating

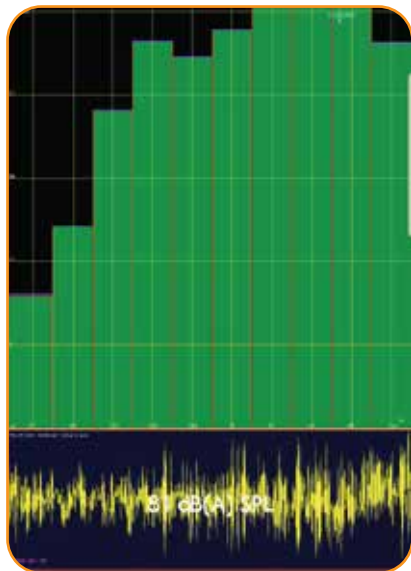


GUARDIAN insulation paint minimizes heat flux which is the major reason for energy loss. Generally speaking, insulation means minimizing heat flux. 1mm of GUARDIAN insulation paint has a similar thermal efficiency of 50mm thickness glass fiber.

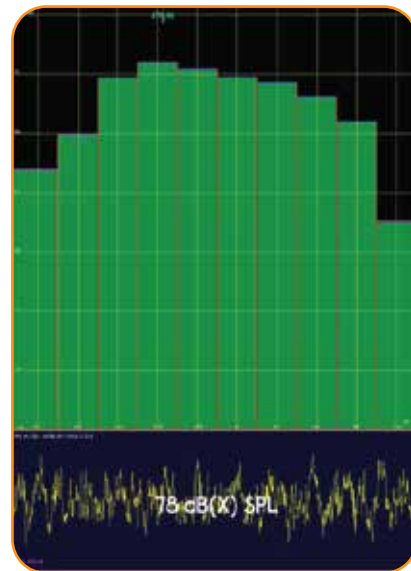


Sound Absorption

Before 81dB

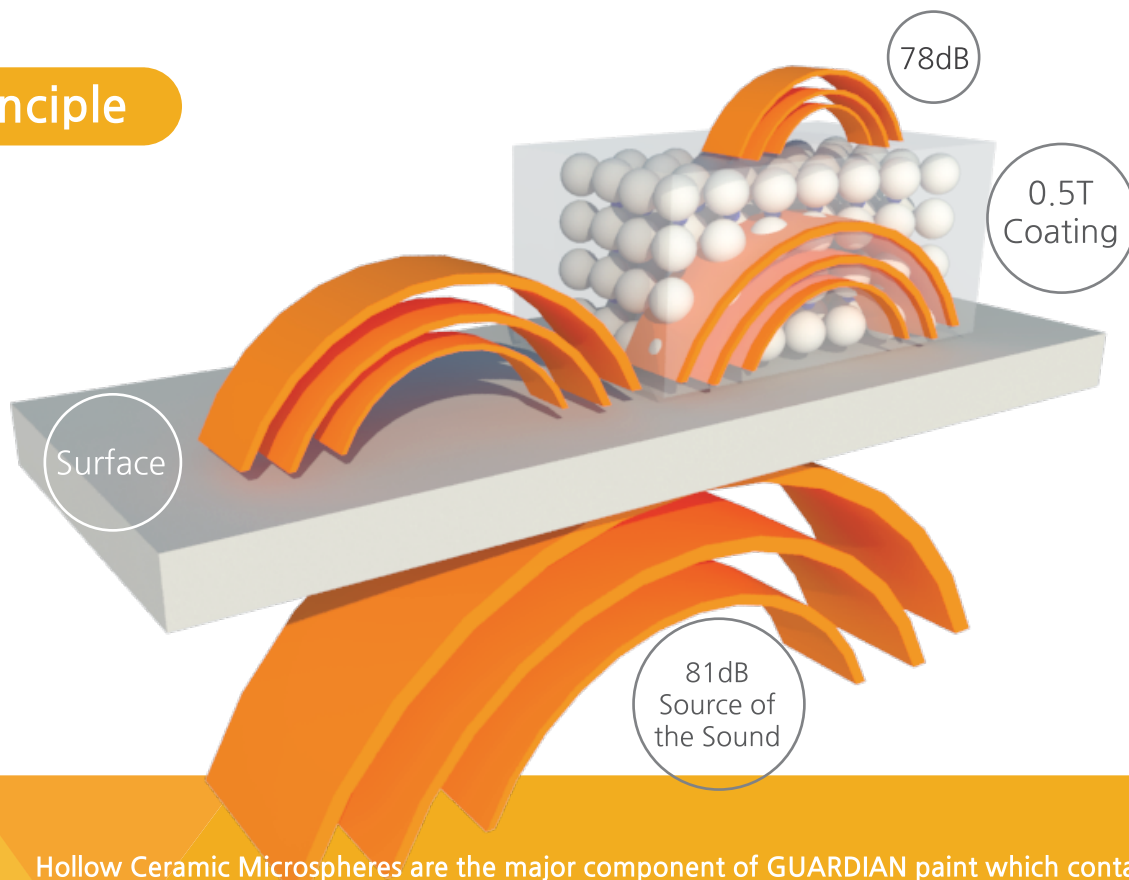


After 78dB



0.5~1mm
Coating

Principle



Hollow Ceramic Microspheres are the major component of GUARDIAN paint which contain air layers. These air layers absorb the sound effectively. 3dB gap in the image above actually means the sound reduced two times.

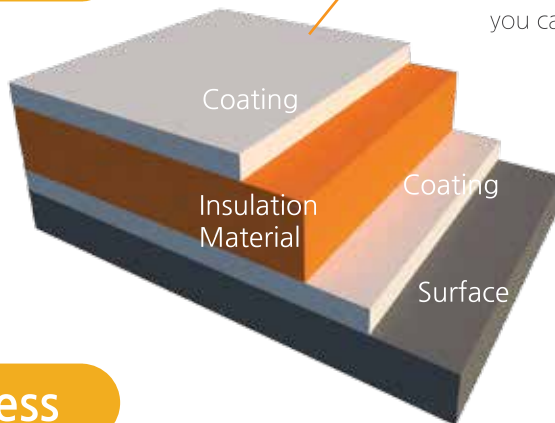


Multi Coating

Features

By combine insulation fabric and GUARDIAN insulation paint, you can apply the insulation to any shape and any place easily.

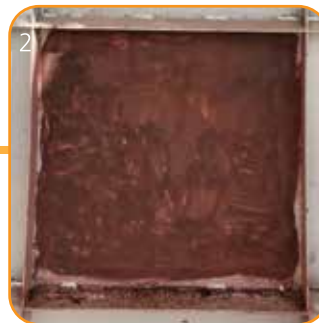
Structure



Process



1.Surface



2.Sanding



3. Primary insulation spraying on the surface



6. The second insulation spray (Final spray)



5.Placing on the surface



4. Spray on insulation fabric



The multi-coating method can maximize the insulating effect by mixing insulation material and GUARDIAN insulation paint.

It cut down the unnecessary usage of paint and shorten installation time.

This method is available for both high and low-temperature insulation coating.

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