



Energy-saving, carbon-reducing paint
that makes heat insulation
and heat shield effect at the same time

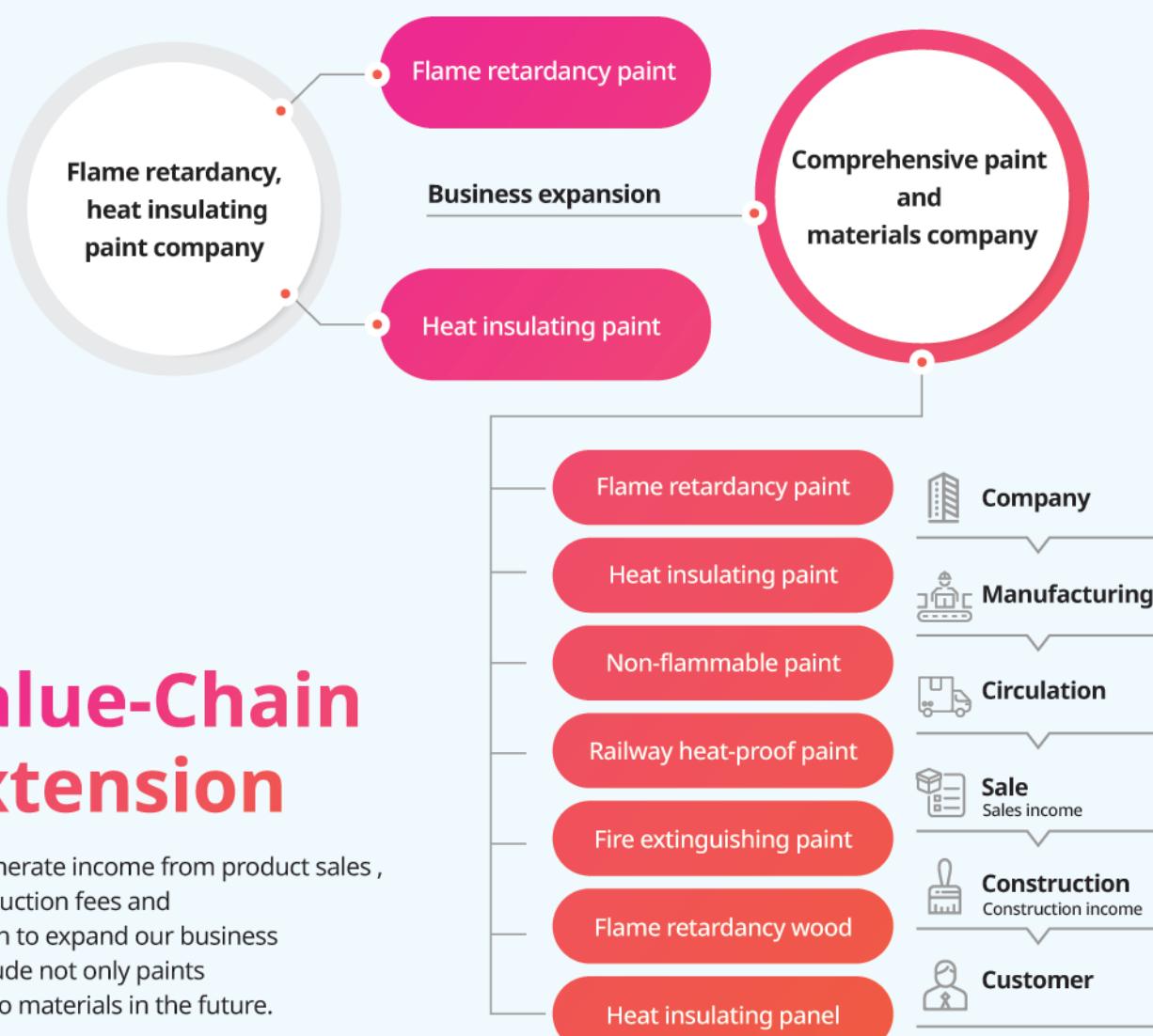




EUCNC Co., Ltd., is a specialized eco-friendly energy-saving paint company.

We researches, develops, produces, and even sells special paints, and is a technologically powerful small company that meets the global challenge of the "carbon neutral era."

We are currently producing eco-friendly flameproof paints based on eco-friendly R&D technology, and are researching and developing customized eco-friendly functional paints such as eco-friendly energy saving paints, heat barrier paints, non-combustible paints, and antifouling paints. With excellent performance, it can be applied to various industries such as general buildings, industrial buildings, railway rails, and transformers.



Value-Chain Extension

We generate income from product sales , construction fees and we plan to expand our business to include not only paints but also materials in the future.



2023

03. Funding from S-OIL(mother company ARAMCO)
04. Commendation from the Minister of Science and ICT
04. Selected as 100 material parts equipment startups
06. Participated in Paris [VIVA TECH 2023]
07. Established a corporation in Indonesia
09. Designation of promising companies (G-PASS companies) entering the overseas procurement market



2022

03. Acquisition of Eco-Label Certificate
05. Eco-friendly Label Certification
05. Secure Innobiz Confirmation
05. POC with Incheon Port Authority
08. Smart Construction Entrepreneurship Idea Contest Grand Prize
09. Green Technology Certification
09. Innovative Product Certification
11. Commendation from the Minister of Environment for eco-friendly technology promotion and green consumption



2021

01. Seed B investment success
05. Selected as a performance sharing company for Incheon Metropolitan City Corporation
06. relocation of factory (registration of factory for manufacturing chemical products)
09. Encouragement Award in Environmental Startup Competition at Environmental Startup Competition
09. Established a local corporation in Russia(St. Petersburg)
11. Received a commendation from the Minister of Small and Medium Venture Business as a technologically innovative company
12. POC with Korea Western Power
- Commendation from the Minister of Small and Medium Venture Business

2020



02. Korea Institute of Industrial Technology - Designated as a partner company
07. Seed A investment success
08. Acquisition of flame retardant paint type approval (certified for 75m² per L)
11. Award Certificate from the Mayor of Incheon Incheon Start-up Vitalization Award



2019



02. Establish EUCNC in 2019
06. Initial Start-Up Package Agreement
09. Corporate Affiliated Research Institute Certification
10. Certification on venture company in 2019

CEO Introduction



CEO Greetings

EUCNC CEO Jang-Sik choi

EUCNC Co., Ltd., is a specialized eco-friendly energy-saving paint company. we researches, develops, produces, and even sells special paints, and is a technologically powerful small company that meets the global challenge of the “carbon neutral era.

인사말

We are currently producing eco-friendly flameproof paints based on eco-friendly R&D technology, and are researching and developing customized eco-friendly functional paints such as eco-friendly energy saving paints, heat barrier paints, non-combustible paints, and antifouling paints. In particular, the eco-friendly insulating heat paint was designated as an innovative procurement product in 2022, and a pilot procurement project for public institutions is underway. With excellent performance, it can be applied to various industries such as general buildings, industrial buildings, railway rails, and transformers.

In order to reduce carbon emissions according to the Paris Climate Agreement around the world, the importance of reduction materials and technologies is increasing. In particular, we intend to contribute to "Carbon Neutrality" by drastically reducing carbon emissions by using special carbon-reducing, eco-friendly coatings.

With the idea that excellent technology determines corporate value, please keep an eye on the hopeful future of EUCNC, which challenges toward the global market with unstoppable passion to research and develop world-class technology. We will continue to make efforts to realize customer value and fulfill our corporate social responsibility by creating a pleasant indoor and outdoor environment by applying eco-friendly special paint to buildings and industrial facilities.

Thank you

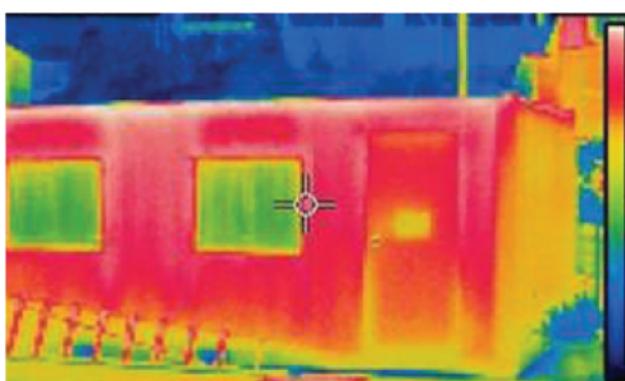
Unlike existing products that have only one function of insulation or insulation, it has both functions of insulation and insulation, and each has excellent performance.

Products

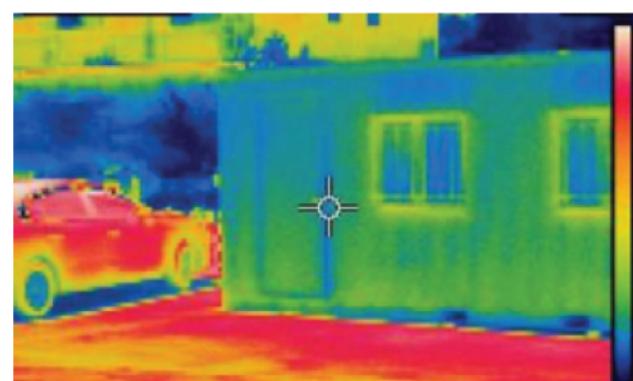


Performance of our products	Characteristics of existing product	Characteristics of our products
Heat insulation effect 7~8 °C	Has only one function: heat insulation or heat shield	Has both heat insulation and heat shield functions
Heat shield effect 8~13 °C	Difficulty in customizing production for each application due to the inability to control the manufacturing recipe Requires 3 coats of bottom, middle and top coats	Manufacturing recipe can be adjusted and customized production is possible for each application. No need for bottom or middle coat so only apply top coat once.
Number of applications 1~2 top coats		
Eco-friendly label certification Acquired		
Green Technology Certification Acquired		
Innovative Product Certification Acquired		

Temperature comparison before and after application



Before



After

Products

It has excellent technological competitiveness and has two functions: insulation and thermal insulation, and has the advantage of cost reduction and customized small quantity production.

Division	Other company's products	Our products
Product features	One function : heat insulation or heat shield	Two functions : heat insulation and heat shield (Patent : 10-2283877 / HEAT SHIELD AND INSULATION PAINT COMPOSITON)
Number of applications	3-stage construction : top , middle , bottom coat	Top coat 1~2 times > Construction period can be shortened by 1/5 (Patent : 10-2311501 / HEAT SHIELD AND INSULATION PAINT COMPOSITION REQUIRING NO PRIMER AND NO SURFACER)
Customized production	Not possible with mass production system	Customized production is possible as an industrial coating that lowers the temperature of high-temperature areas by adjusting the recipe. (Patent : 10-2283891 / HIGH THERMAL INSULATION COATING COMPOSITION FOR HIGH-TEMPERATURE SURFACE PARTS)

Technological competitiveness
: Fusion technology of non-porous and hollow bodies

Process competitiveness
: Basic recipe can be modified

Shortening Construction Period

: Apply 1-2 coats of topcoat without needing primer
→ Shorten construction period by 1/3

Cost Reduction

: Labor cost savings due to shortened construction time
→ Cost savings of more than 50% possible

Reinforceability

: Special performance such as anti-fouling and rust preventative performance can be added and strengthened.

Custom production

: Capable of producing a variety of products in small quantities

Acquired a certified test report for greenhouse gas emission reduction rate.

The highest reduction rate of green-house gas emissions by paint itself (appro. 50%)

1. Container greenhouse gas emissions (unit: kgCo2eq)

Division	9/1	9/2	9/3
Unpainted	1.715	1.568	1.078
EUCNC	0.789	0.791	0.595
JAPAN	1.627	1.304	0.841

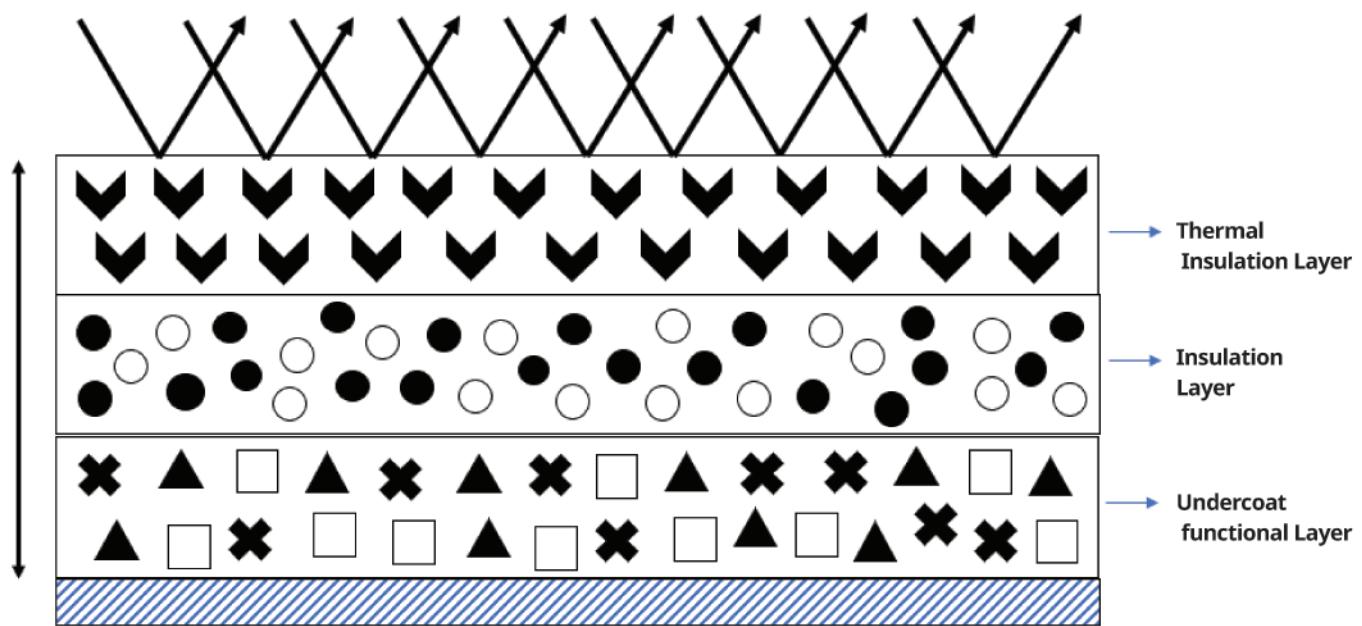
2. Container energy consumption (unit: kWh/day)

Division	9/1	9/2	9/3
Unpainted	3.733	3.414	2.347
EUCNC	1.718	1.721	1.295
JAPAN	3.541	2.838	1.831



Solar Infrared Reflection

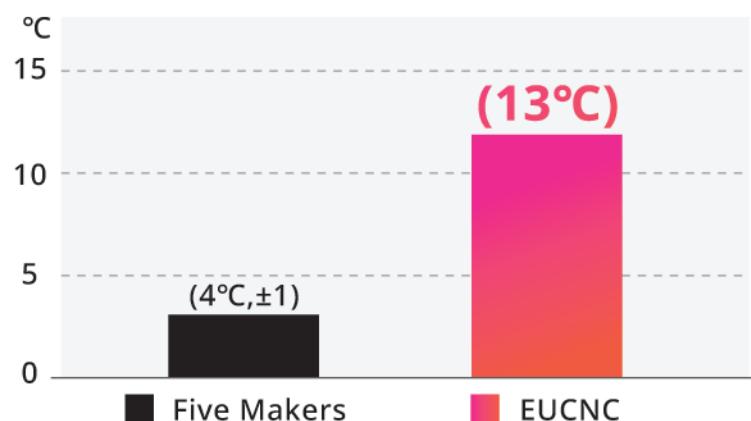
Insulation effect through ceramic hollow body,
It exerts a heat shielding effect through
a ceramic non-porous body.



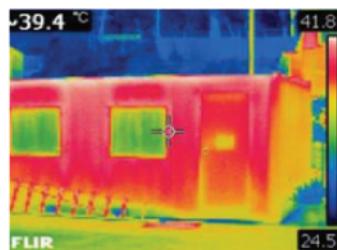
During construction, the ceramic hollow body and ceramic non-porous body each form a series of layers to simultaneously demonstrate to the heat insulating & heat shield performance, resulting in excellent energy savings.

Eco-friendly energy saving heat paint

- 8~13°C reduction in room temperature when EUCNC paint is applied
- It can be applied with only 1-2 top coats without the need for a primer
- If you adjust the heating and cooling 1, the energy saving rate is about 7% Reducing electric energy consumption by applying it to general buildings or factory buildings (annual average of 25-30%)



Before



High surface temperature by sunlight before apply paint
temperature rises rapidly

After



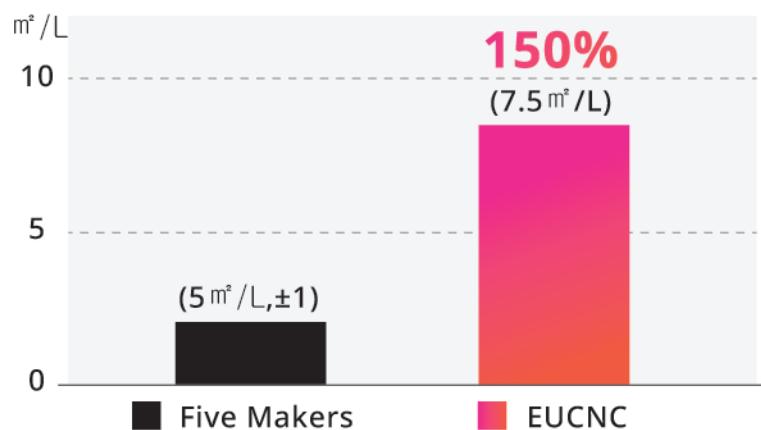
Low surface temperature due
to Heat shieding effect after apply paint
(less than 8~13°C other paints) energy saving 30~50%

Flame retardancy paint

- The largest drawing area in Korea of 7.5 m²/L (secured type approval from the Korea Fire Industry and Technology Institute)
- Possible to produce secondary processed products (plywood squared beam flame retardant coating)
- Applicable to 62 exhibition and cultural facilities in Korea, including KINTEX, COEX, and BEXCO

Coating area

[2020.Aug, KFI, TYPE APPROVAL]



Test



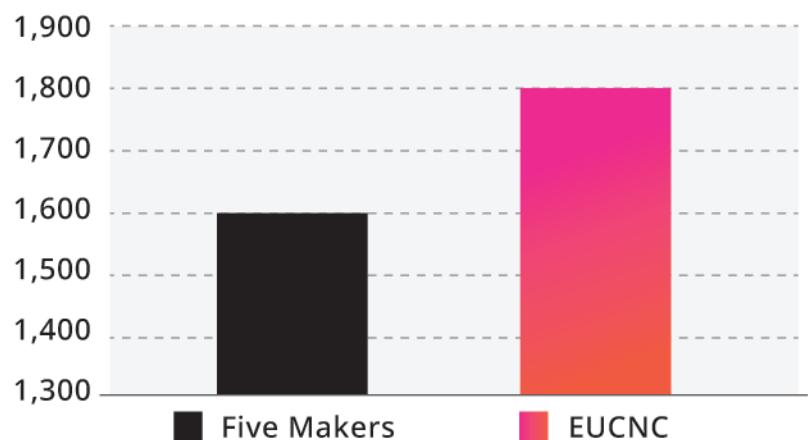
Painting

Non-flammable paint

- Heat resistant up to 1800°C
- A special market with high added value that is difficult for major companies to entry
- Russian nanotechnology material center technology introduction in progress

Heat resistance

[2020.Aug, KFI, TYPE APPROVAL]



Electric Transmission System



Chemical Tank

Railway heat-proof paint

- 5~7 °C temperature reduction effect
- Applicable to 1,512km of domestic rail and 29,792km of global rail
- Proposal collaboration in progress with Dongyang University Railway Department



Rail Buckling



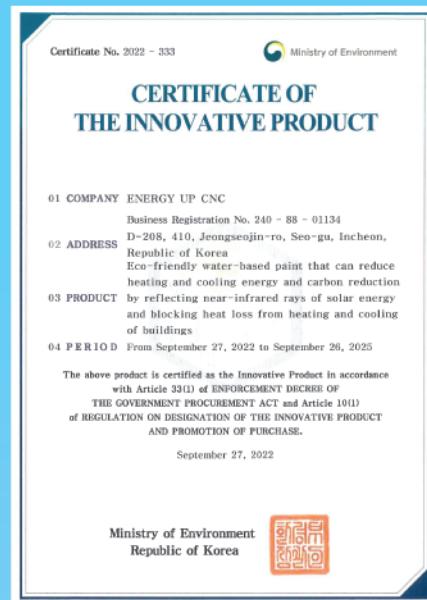
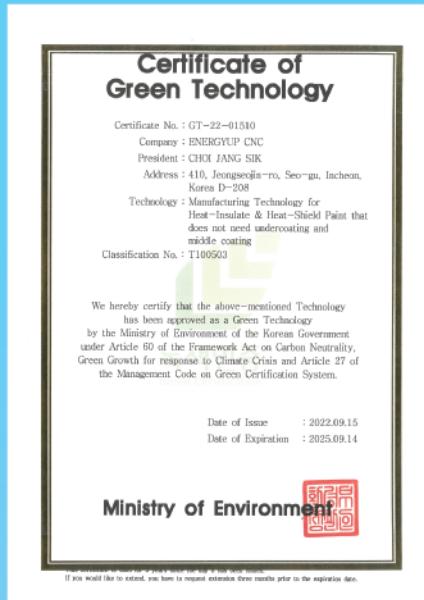
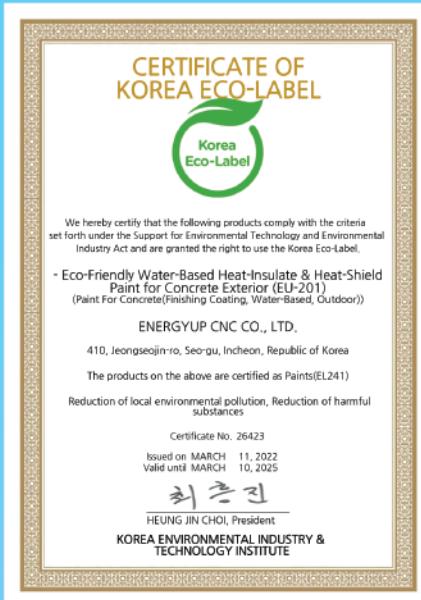
Rail Buckling

Large difference in operation speed in units of 5°C

- Track Temp 64°C over - Shut down
- Track Temp 60°C~63°C - Under 70km
- Track Temp 55°C~59°C - Under 230km



Certification

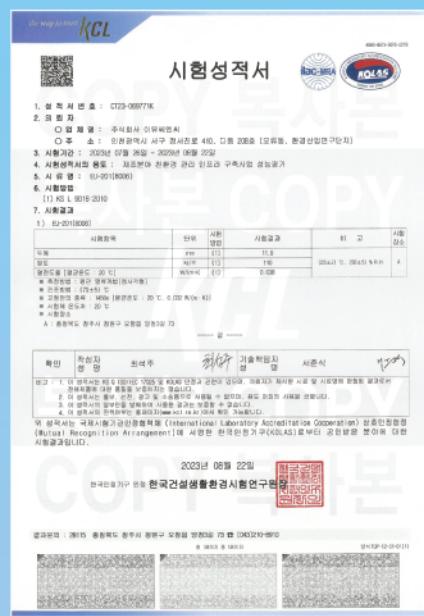


Eco-friendly

Eco-friendly Label Certification
EL241

Green Technology Certification

Innovative Product Certification



USA CRRC Certification

Heat insulation

Heat shield



Leading environmental preservation for next generations and opening up
the eco-friendly energy-saving & carbon reduction paints market.

CEO : Jang-Sik Choi
Tel : 032)566-0650 Fax : 032)568-0651
Address : 410, Jeongseojin-ro, Seo-gu,
Incheon, Republic of Korea

Copyright © 2023 EUCNC. All Rights Reserved.