



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



INNOBIZ
기술혁신형중소기업



Ministry of Environment
Innovative product certified
by Ministry of Environment

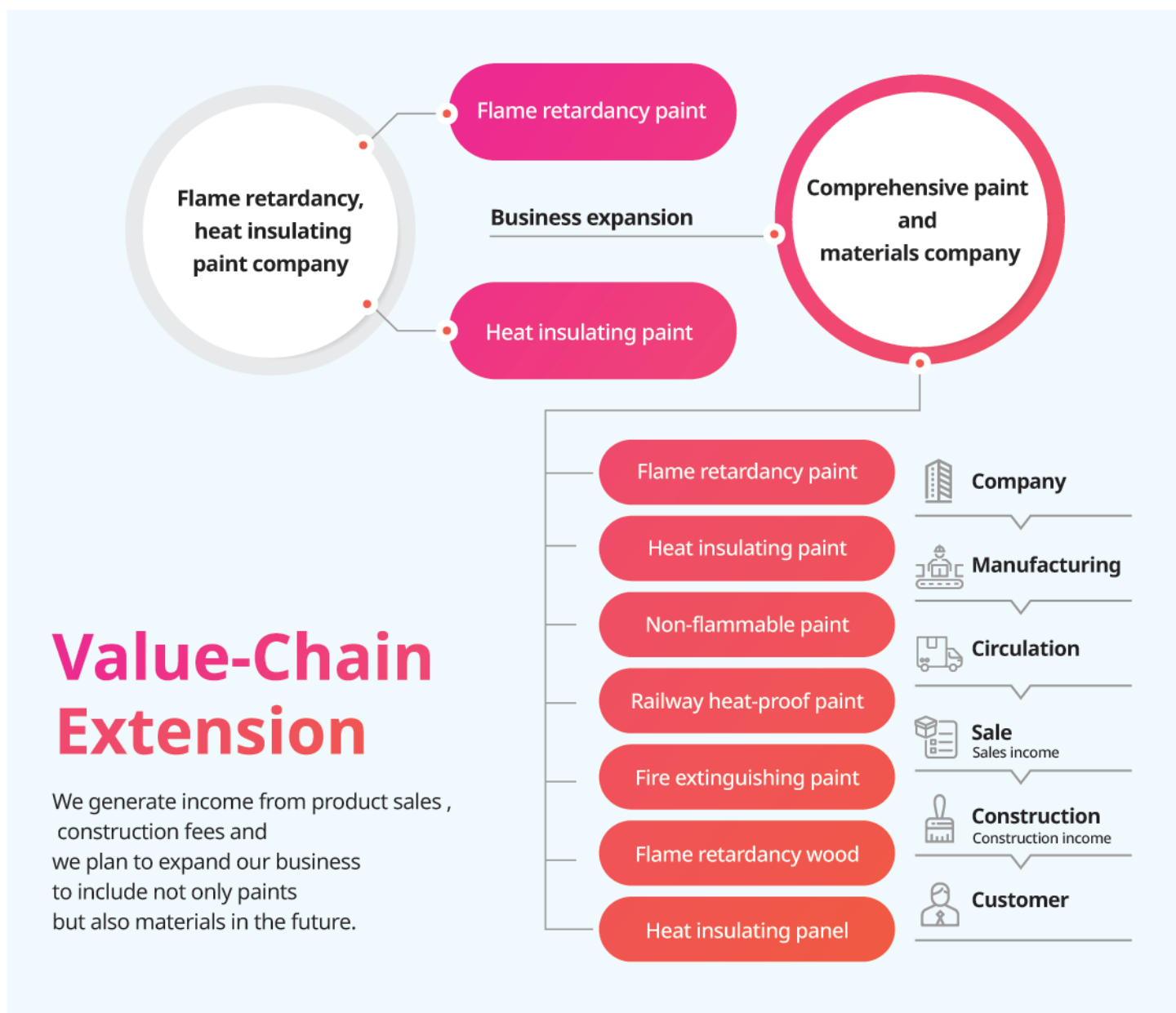
www.eucnc.co.kr



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.





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. elocation of factory (registration of factory for manufacturing chemical products)
- 09. Encouragement Award in Environmental StartupStartup Division at Environmental StartupCompetition
- 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
- 12. 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 typeapproval (certified for 75㎡ 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

A handwritten signature in black ink, reading 'Jang-Sik Choi'.

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We are currently producing eco-friendly flameproof paints based on eco-friendly R&D technology, and are researching and developing customized eco-friendly functional paintssuch 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

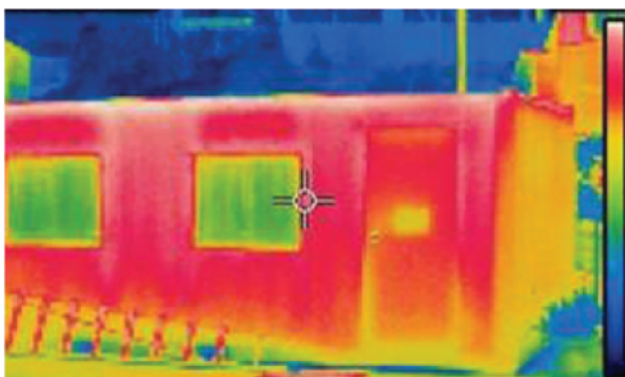
Unlike existing products that have only one function of insulation or insulation, it has both functions of insulation and insulation, and each has excellent performance.

Products

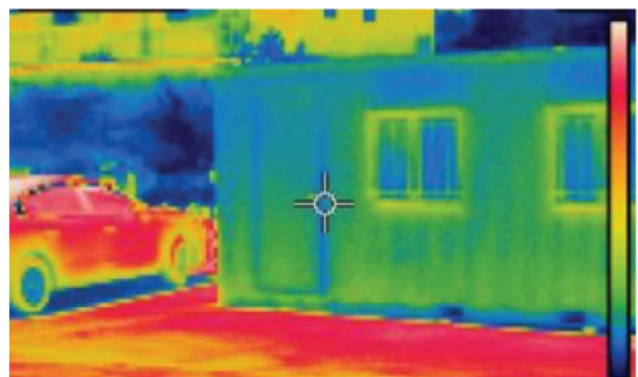


Performance of our products	Characteristics of existing product	Characteristics of our products
Heat insulation effect	<p>Has only one function: heat insulation or heat shield</p> <p>Difficulty in customizing production for each application due to the inability to control the manufacturing recipe Requires 3 coats of bottom , middle and top coats</p>	<p>Has both heat insulation and heat shield functions</p> <p>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.</p>
Heat shield effect		
Number of applications		
Eco-friendly label certification		
Green Technology Certification		
Innovative Product Certification		

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

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

Process competitiveness : Basic recipe can be modified

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 greenhouse 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

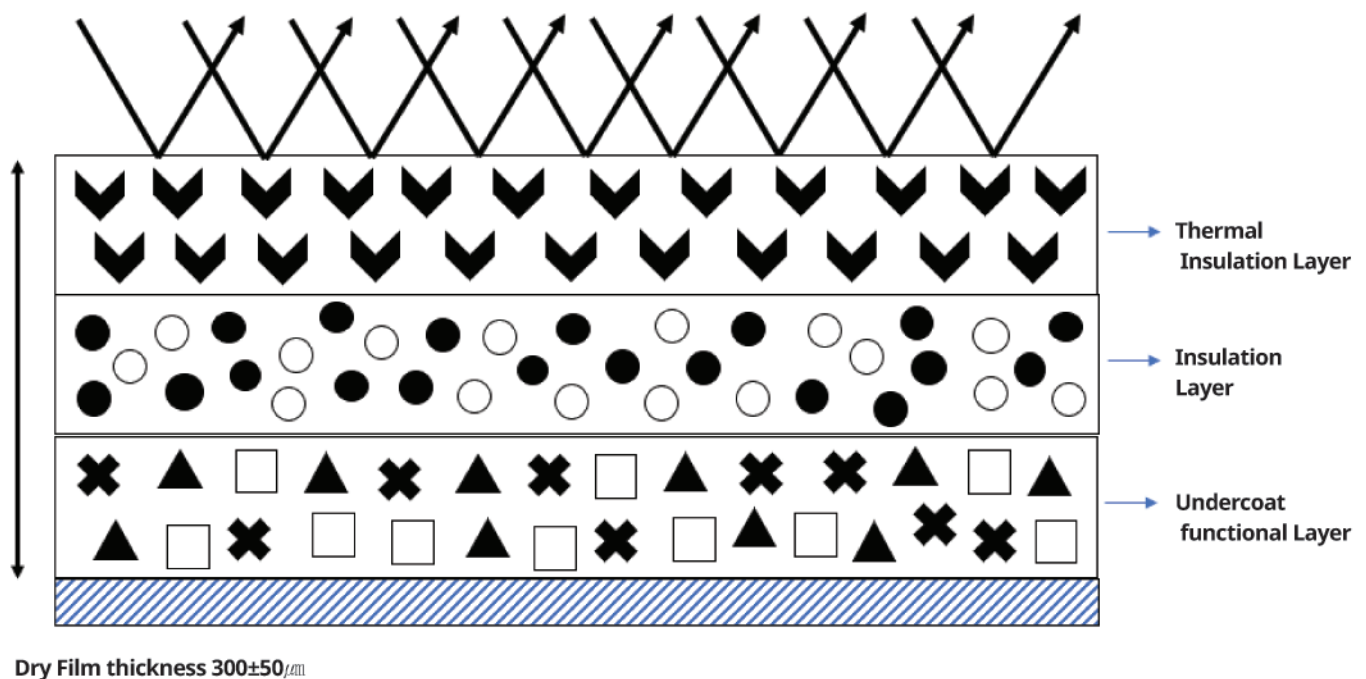
2. Container energy consumption (unit: kWh/day)

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

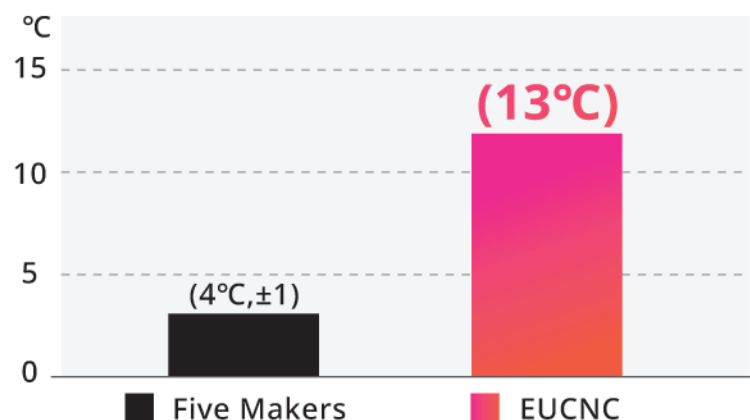
Insulation effect through ceramic hollow body,
It exerts a heat shielding effect through
a ceramic non-porous body.



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



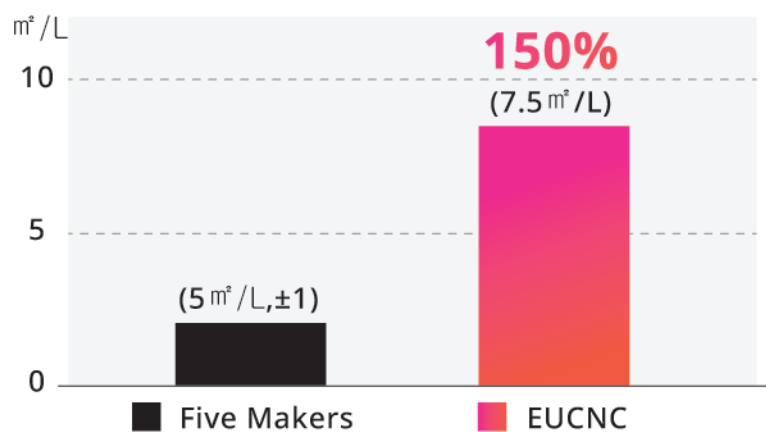
Low surface temperature due
to Heat shielding effect after apply paint
(less than 8~13°C other paints) energy saving 30~50%

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



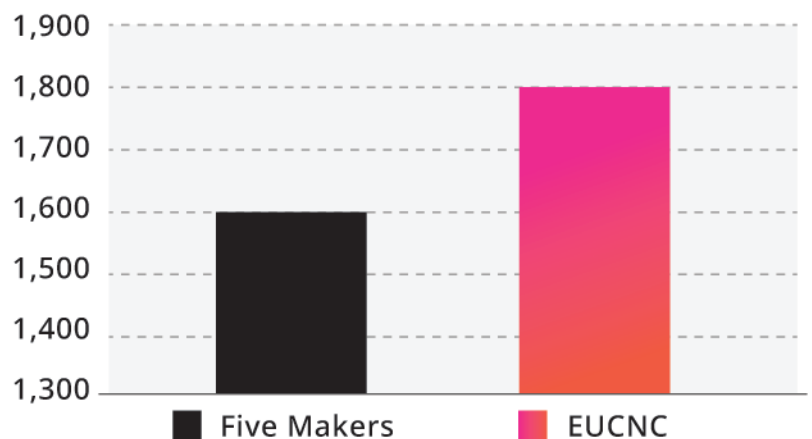
Painting

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



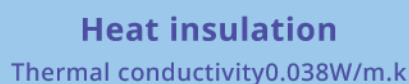
Rail Buckling

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



Innovative Product Certification





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

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