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Korean Innovative product certified by Ministry of Environment  Ministry of Environment

Eco-Friendly Energy Saving, with
Heating-Insulating and Heat-Shielding Effect

CARBON- REDUCTION PAINTS

Eco-friendly carbon reduction,
Energy savings Heat-Insulating,
Heat-Shielding effect at once
Simple method, Strong durability



Main History

- 2019

02.

Established EUCNC in 2019

06.

Initial Start-Up Package Agreement

09.

Corporate Affiliated Research Institute Certification

10.

Certification on venture company in 2019
- 2020

02.

Korea Institute of Industrial Technology – Designated as a partner company

07.

TIPA Startup Growth Technology Development Project Agreement

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

11.

Incheon Start-up Vitalization Award
- 2021

01.

Korea–Russia Technical Cooperation Platform Establishment Agreement

01.

Seed B investment success

05.

Selected as a performance sharing company for Incheon Metropolitan City Corporation

06.

TIPA overseas source technology commercialization technology development business agreement

06.

Relocation of factory (registration of factory for manufacturing chemical products)

09.

Encouragement Award in Environmental Startup Division 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
- 2022

01.

Korea–Russia Innovation Platform Establishment Agreement

03.

Acquisition of Eco-Label Certificate

05.

Securing 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
- 2023

03.

Bridge A investment success(S-OIL)

04.

Commendation from the Minister of Science and ICT

04.

Selected as 100 material parts equipment startups

06.

Participated in [VIVA TECH 2023] (Paris)

07.

Established a corporation in Indonesia

09.

Paint donation to Indonesia National University

09.

Designated as a promising company entering the overseas procurement market (G-PASS)

11.

Hoban Innovation Technology Contest Award

11.

Korea Invention Competition Excellence Award

11.

Minister of Employment and Labor Award for Excellent Work Innovation Company

12.

Awarded an appreciation plaque from the Seoul Economic Promotion Agency

12.

Series A investment attraction(oheim)
- 2024

01.

Received the Chairman's Award for Technology Commercialization from the Research and Development Special Zone Promotion Foundation

04.

Samdong Boys Town 'welfare facility environment improvement donation ceremony'

06.

Construction of lounge facilities for S-OIL partners



Heat-Insulating, Heat shielding effect at once

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

Performance of our products	Characteristics of existing product	Temperature comparison before and after application
Heat-Insulating effect 7~8℃	Has only one function : Heat-Insulating or Heat-Shielding 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	before after
Heat-shielding effect 8~13℃		
Number of applications 1~2 top coats		
Eco-friendly label certification Acquired		
Green Technology Certification Acquired	Characteristics of our products (EUCNC) Has both Heat-Insulating and Heat-Shielding functions 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.	
Korean Innovative Product Certification Acquired		

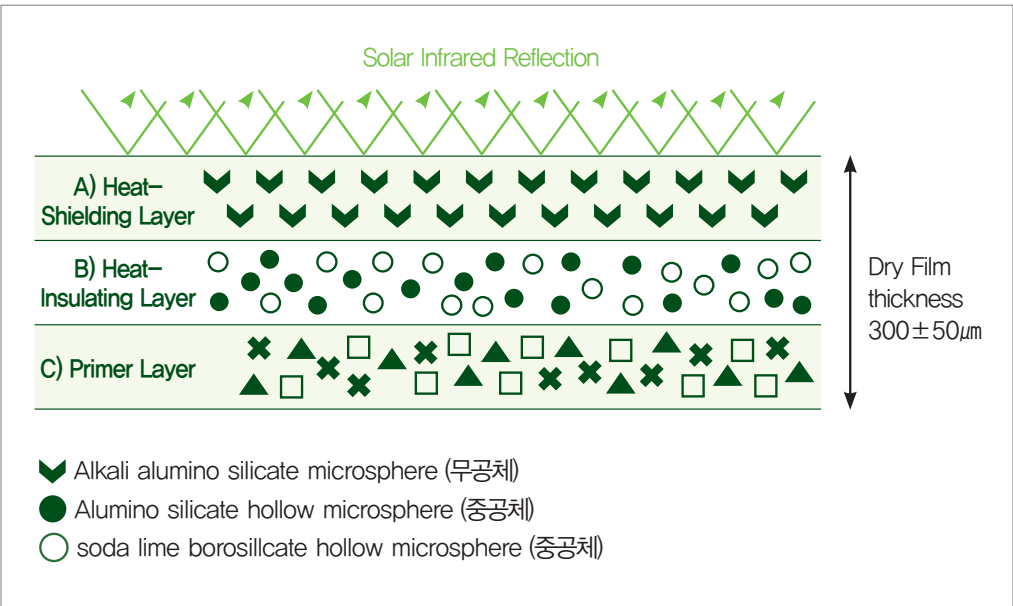
Excellent technological competitiveness and possesses two functions: Heat–Insulating and Heat–Shielding It has the advantage of cost reduction and customized small quantity production.

Division	Other company's Products	Our products
Product features	One function: heat insulation or heat shield	Two functions : Heat-Insulating and Heat-Shielding (Patent: 10-22838777/ HEAT SHIELD AND INSULATION PAINT COMPOSITION)
Number of applications	3-stage construction: top, middle, bottom coat	Top coat 1~2 times → Reduction for construction period up to 30% (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 : Modified for target from the basic recipe
Reduced Construction Period :Apply 1~2 coats of topcoat without needing primer → Reduction Construction period up to 30% Cost Reduction :Labor cost savings due to shortened construction time → Cost saving up to 50%	Special Functions :Special performance such as anti-fouling and rust preventative performance can be added and strengthened. Customized production :Capable of producing a variety of products in small quantities

Principle of complex function of Heat-Insulating and Heat-Shielding.

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



Energy saving and carbon reduction

Acquired certified test reports for reducing energy consumption rate and greenhouse gas emission reduction rate
Energy Saving Rate by paint : up to 50%
Reduction of Greenhouse gas emissions Rate: up to 40%

[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

[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

Patent Registration Certificate



Certificate and test report



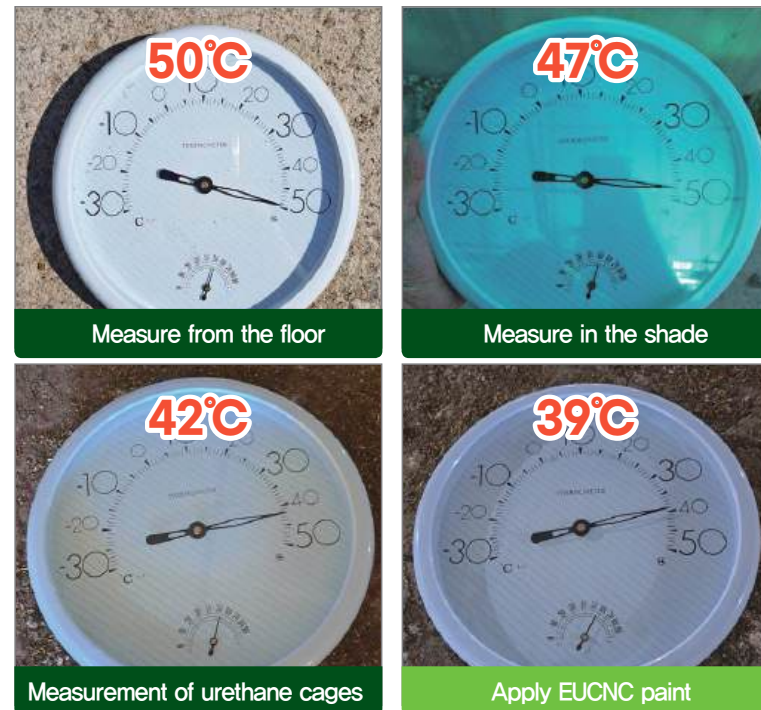
Combine Heat-Insulating & Heat-shielding at once

Unlike existing products that have only one function of heat Insulating or heat shielding, it is an eco-friendly special paint that has heat Insulating and heat shielding functions integrated into single product.
(Saving Heating or Cooling Expense)

[Test bed in Green Cluster in Korea]



[Temperature measurement of Poultry farm]



Major construction cases

Environment Corporation of Incheon



Poultry farm



Donated Paint and Apply for National University of Indonesia

