Key Advantages of Our Technology

CARBON REDUCTION PAINTS
with Heat-Shielding and Heat-Insulating Effect

94% — 94% NIR Reflectance for Maximum Heat Reflection

50% — Cuts Carbon Emissions by up to 50%

30 - 50% — Reduces Energy Costs by 30-50%

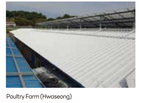
12 g/L — VOCs Content: Less than 12g/L

Korean Innovative products certified by Ministry of Environment

Certificate and Test Report

Major Construction Project


Incheon Environmental Corporation


Poultry Farm (Hwaseong)


LH Apartment in Hwangsong-dong, Gumi, Gyeongbuk (Jun. 2024)


Construction of Rest Facilities at S-OIL Ulsan Plant (Jun. 2024)


Indonesia POLMAN BANDUNG UNIV (Sep. 2023)


Fuel Storage Tank for EBCI in Indonesia (Nov. 2024)


Hankook Tire Factory in Indonesia (Nov. 2024)

EUCNC

DUAL PROTECTION:
HEAT-SHIELDING AND HEAT-INSULATING **IN ONE**

NO PRIMER NEEDED:
APPLY 1-2 TOP COATS ONLY

ECO-FRIENDLY,
WATER-BASED PAINT

410, Jeongseojin-ro, Seo-gu, Incheon, Republic of Korea
Tel. +82 032 566 0650 E-mail. eucncsales@eucnc.co.kr
https://eucnc.co.kr/en

ECO-FRIENDLY
ENERGY SAVING

CARBON REDUCTION PAINTS

with Heat-Shielding and Heat-Insulating Effect

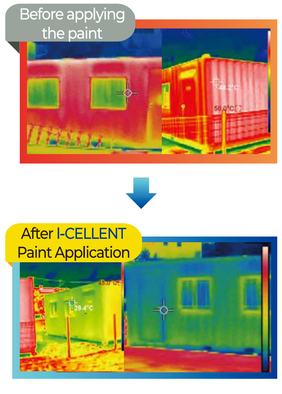
INNOVATIVE PAINT FOR A GREENER, SUSTAINABLE WORLD!

EUCNC

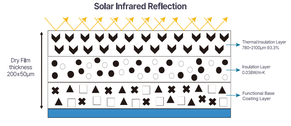
PROVEN HEAT-SHIELDING AND HEAT-INSULATING EFFECTS

In a pilot test conducted at our Incheon headquarters, the general paint reached 55℃, while EUCNC paint maintained a lower temperature of 43.6℃, demonstrating a difference of 11.4℃.
Container Surface Temperature Measurement Data, September 2024

Temperature Comparison Before and After **I-CELLENT**



HOW HEAT-SHIELDING AND HEAT-INSULATING WORK TOGETHER



- Alkali alumino silicate microspheres 1–25μm
- Alumino silicate hollow microspheres 30–100μm
- Soda lime borosilicate hollow microsphere 20–30μm
- Calcined micro alumina
- Calcined micro silica
- Micro zinc phosphate

Heat-Shielding Layer

Utilizing micro-sized ceramic particles, this layer reflects over 94% of solar infrared radiation.

Heat-Insulating Layer

Employs micro hollow ceramic particles of varying sizes to block heat transfer within the coating, preventing thermal bridging.

Primer Functional Layer

Enhanced with functional ceramic fillers, this layer forms a strong bond between the substrate and the coating. It ensures superior adhesion on concrete, cement, steel, and other surfaces.

Reduced Emission of Air Pollutants

No detection of 4 major heavy metals and VOCs. VOCs content is below 12g/L, far lower than the environmental certification standard of 35g/L.

Product Performance

Certified Test Report for Greenhouse Gas Emission Reduction in Summer Season Obtained
[CT22-080373K/2022 by KCL Center for Climatic Environment Real-scale Testing (Jincheon)]
Approximately 50% reduction in greenhouse gas emissions during summer – the highest level among paint coatings

Maximum Temperature Difference by Container Type Compared to Non-Coated Container (Unit: °C)

Category	August 24 (Initial condition)	September 1	September 2	September 3
EUCNC	-6.1	-7.7	-8.8	-1.5
Japan	-3.9	-6.8	-6.8	-0.8

Greenhouse Gas Emission per Container (Unit: kgCO_2eq)

Category	September 1	September 2	September 3
Non-coated	1.715	1.568	1.078
EUCNC	0.789	0.791	0.595
Japan	1.627	1.304	0.841

Greenhouse Gas Reduction Rate Compared to Non-Coated Container (Unit: %)

Category	September 1	September 2	September 3
EUCNC	54.0	49.6	44.8
Japan	5.1	16.9	22.0

Certified Test Report for Greenhouse Gas Emission Reduction in Winter Season Obtained
[PC23-02974K, 2024 by KCL Center for Climatic Environment Real-scale Testing (Jincheon)]
Approximately 24% reduction in greenhouse gas emissions during winter – the highest level among paint coatings

Greenhouse Gas Emission per Container (Unit: kgCO_2eq)

Category	February 23	February 24	February 25
Non-coated	23.6	23.3	21.7
EUCNC	17.8	17.7	16.7

Greenhouse Gas Reduction Rate Compared to Non-Coated Container (Unit: %)

Category	February 23	February 24	February 25
EUCNC	24.6	24.0	23.0