

SUZUKA FINE CO.,LTD.

Anniversary

Since 1948

High Solar reflective paint

COOL TOP SI



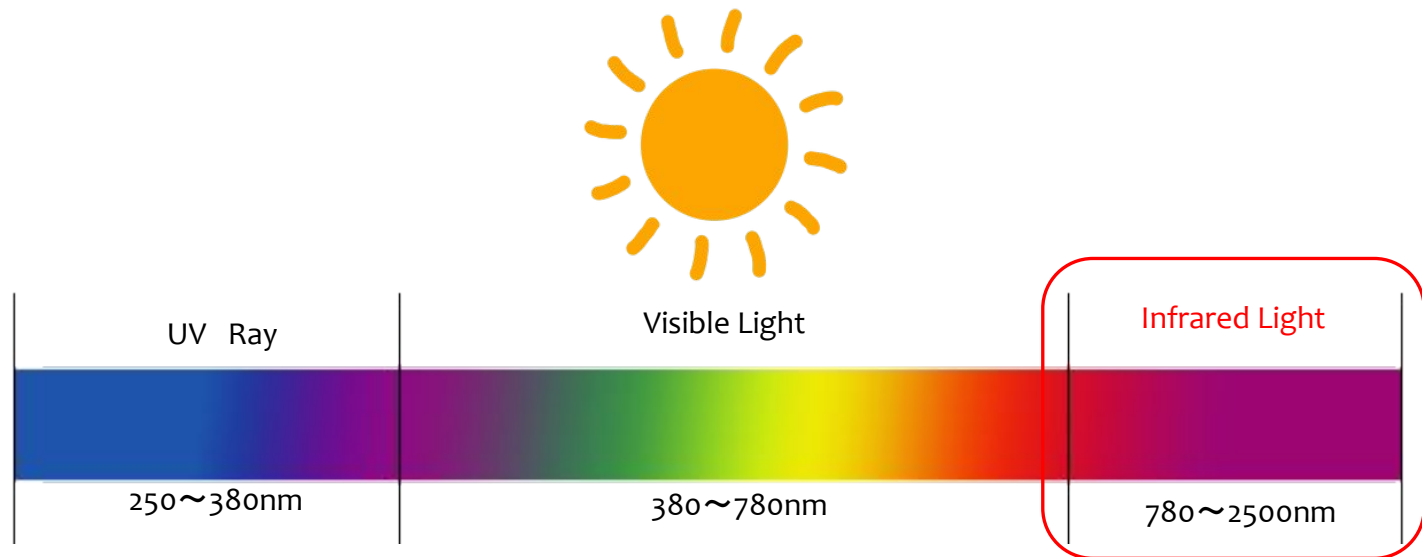
Company Profile

- Head quarter : 1058-4 Kusucho-ogura, Yokkaichi-City, Mie,510-0101, Japan
- Establishment : September 1, 1948
- Capital : \$4,000,000
- The number of employees : 242 persons (As of April 1, 2020)

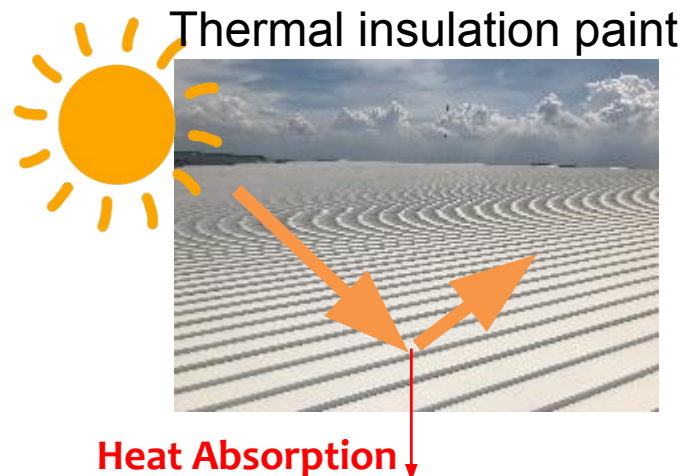
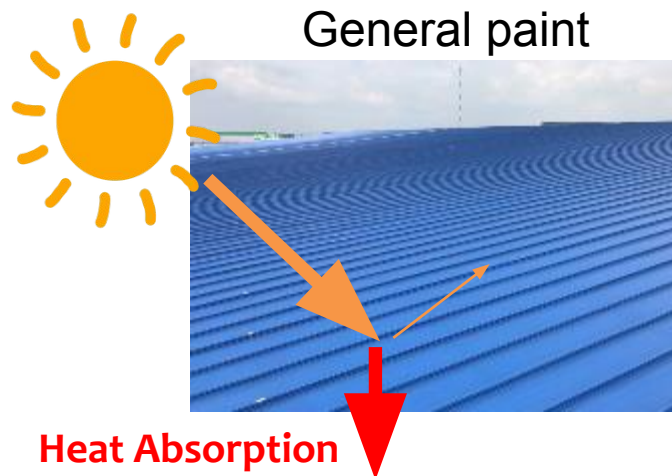
Mechanism of saving energy

The wavelength of sunlight is classified into 3 regions: UV ray, Visible Light, Infrared Light.

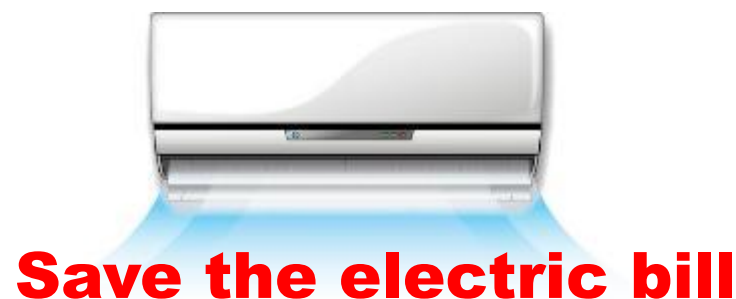
When the sunlight is absorbed into the substance, it is converted to heat and raise the temperature of the substance. Thermal insulation paint reflects the infrared light and suppresses the temperature of the room.



Mechanism of saving energy



Thermal insulation paint suppresses the temperature of the room and save the electric bill.



About our product

SUZUKAFINE soled the solar reflective paint first in Japan
(Released in 1979)

We had a patent of that technology.

COOL TOP SI is developed by that technology.



Silicon resin solar reflective paint

COOL TOP SI



SUZUKA FINE CO.,LTD.

Comparison with other thermal reflective paint

	COOL TOP SI	Vietnam Paints
Resin	Silicon Resin The average repainting span. 6~9 years in Japan	Acrylic Resin The average repainting span. 3~5 years in Japan
Weatherability	◎	×
JIS K 5675 High Solar Reflectance Paint for Roof	Same quality Over 80% Solar reflectance after 2 years.	×
Stain removal	◎	×

JIS K 5675 High Solar Reflectance Paint for Roof (Excerpt)

Item		1st Class	2nd Class	3rd Class	LG Class	
Solar Reflectance		Lightness rang Near-infrared wavelength range solar reflectance σ IR% $L^* \leq 40$ $40 \leq \sigma$ IR% $40 < L^* < 80$ $L^* \leq \sigma$ IR% $L^* \geq 80$ $80 \leq \sigma$ IR%				
Accelerated weather resistance	Irradiation time	2,500 hr	1,200 hr	600 hr	600 hr	
	Evaluation	After the specified exposure, no cracking, flaking or swelling is found on the paint film, and visual comparison on the degree of colour changes of a specimen and reference sample observes no big difference between colour changes of reference sample and colour changes of specimen, and chalking grade is 1 or 0.				
	Gloss retention %	Over 80%	Over 80%	Over 70%	-	
Outdoor Exposure Resistance		No cracking, flaking or swelling is found on the paint film, and visual comparison on the colour changes of specimen and reference sample observes no big difference between colour changes of reference sample and colour changes of specimen, and average retention of near-infrared wavelength solar reflection is 80% or more.				
		Glos retention is 60% or more, and chalking grade is 1 or 0.	Glos retention is 40% or more, and chalking grade is 2,1 or 0.	Glos retention is 30% or more, and chalking grade is 3,2,1 or 0.	Chalking grade is 3,2,1 or 0.	



มหาวิทยาลัยเทคโนโลยีพระจอมเกล้าธนบุรี
สำนักวิจัยและบริการวิทยาศาสตร์และเทคโนโลยี

126 ถนนพระยาสุรทิศ แขวงบางมด เขตทุ่งครุ กรุงเทพฯ 10140
โทรศัพท์ 0-2470-9671-3, 0-2470-9664-7 โทรสาร 0-2428-3374 <http://www.kmutt.ac.th>

ที่ กส. 5810/59478

7 มิถุนายน 2559

เรื่อง : แจ้งผลการวัดสมบัติทางแสง

เรียน : ผู้จัดการบริษัท ซูตุง ฟาเบอร์ จำกัด

สำนักวิจัยและบริการวิทยาศาสตร์และเทคโนโลยี มหาวิทยาลัยเทคโนโลยีพระจอมเกล้าธนบุรี ได้ทำการทดสอบชิ้นงานทดสอบของท่าน ตามรายงานฉบับนี้ซึ่งแสดงผลการทดสอบค่าการสะท้อนพลังงานแสงอาทิตย์ (Solar reflectance) ที่ทดสอบด้วยเครื่อง Shimadzu UV-3100 (UV-VIS-NIR Recording Spectrophotometer) โดยทำการทดสอบที่ได้จะถูกนำมาคำนวณหาค่าการสะท้อนพลังงานแสงอาทิตย์ ตามมาตรฐาน JIS R 3106 ได้ผลการทดสอบดังตาราง แนบไปนี้

ชิ้นงาน	ค่าการสะท้อนพลังงาน รังสีอาทิตย์ (%)		ค่าการดูดกลืนพลังงาน รังสีอาทิตย์ (%)
	Solar	Visible	
COOL TOP Si SUPER Stributed by OG Trading (Thailand)	92.0	98.4	8.0

จึงเรียนมาเพื่อทราบ

(ดร. พิชนระ วัฏความสูง)

หัวหน้าโครงการ

ขอแสดงความนับถือ

(ดร. นิตี ปวนจันท์)

ผู้อำนวยการ

สำนักวิจัยและบริการวิทยาศาสตร์และเทคโนโลยี

รายงานผลการวัดคุณสมบัติของวัสดุเป็นเอกสารของมหาวิทยาลัยพระจอมเกล้าธนบุรีซึ่งมีลิขสิทธิ์ของสำนักวิจัยและบริการวิทยาศาสตร์และเทคโนโลยี

รายงานนี้ใช้ได้กับชิ้นงานที่ทำการทดสอบเท่านั้น ผลการทดสอบผลการรายงานนี้ใช้ไม่ได้กับวัสดุอื่น หรือผลิตภัณฑ์อื่น ๆ และงดผลจากบริษัทอื่น



日本産業規格表示認証書

スズカファイン株式会社 殿

認証番号 J P 0 4 1 2 0 0 3

契約締結日 平成 25 年 3 月 18 日

発 交 付 日 2019 年 12 月 19 日

定期検査期日 2022 年 3 月 17 日

認証取得者の氏名又は名称及び住所

スズカファイン株式会社

二条県西目市市坊浜町1番地

日本産業規格の番号

名称

種類又は等級

J I S K 5 6 7 6

屋根用高日射反射率塗料

1種2級、1種3級、
1種LG級、
2種1級、2種2級、
2種3級

産業標準化法第 30 条第 1 項の規定により日本産業規格
の表示について上記及び附属書の通り認証する。



一般財団法人 日本塗料検査協会

理事長 宮 田 博 章



Silicon resin

Generally paints are made by acrylic resin.
But 『COOL TOP SI』 is silicon resin paint.
It has weatherability double comparing General paints.

The kind of the coating

Silicon Resin Coating

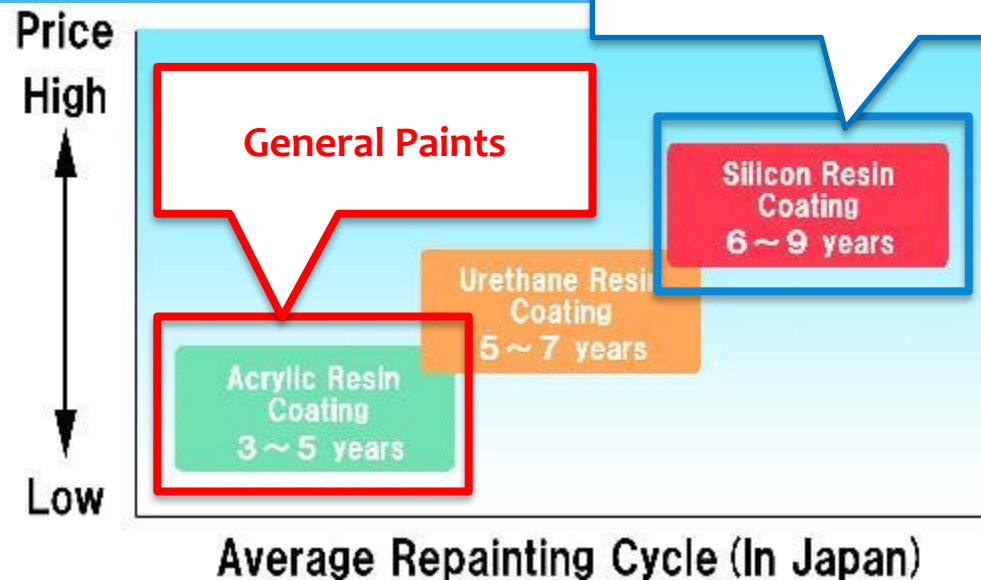
Silicon resin is resistant to ultraviolet ray and stain.
Silicon resin is superior to Urethane resin.

Urethane Resin Coating

Urethane resin is widely used even today.
We can paint on various parts.

Acrylic Resin Coating

Acrylic resin has high cost performance, but the durability is low.



「Sticking stains」

「Heat Insulating performance」

『COOL TOP SI』 is Silicon resin paint.

It is not easily dirty and reflects sunlight for a long time comparing Vietnam Paints.

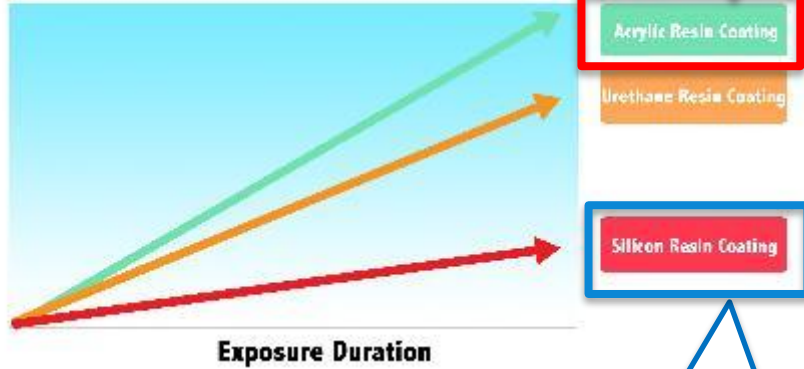
About Sticking Stains

The degree of contamination

High



Low



General Paints

COOL TOP SI

About Heat Insulating performance

Heat Shielding

High

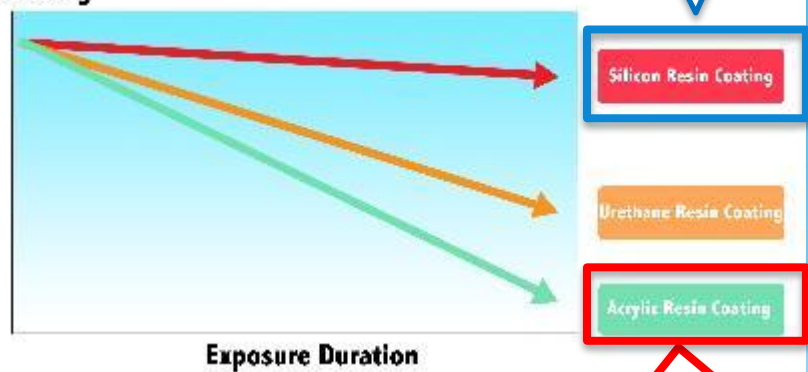


Low



Low

High



COOL TOP SI

General Paints

「Flexibility」

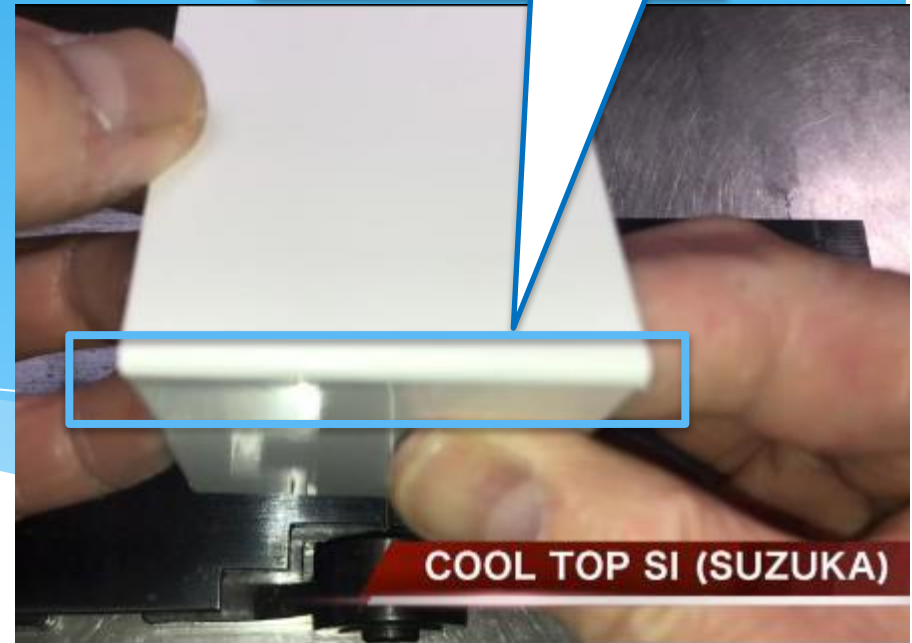
『COOL TOP SI』 has flexibility comparing General Paints. It follows contraction of metal roof without crack.

General Paints



General Paint in Vietnam

COOL TOP SI



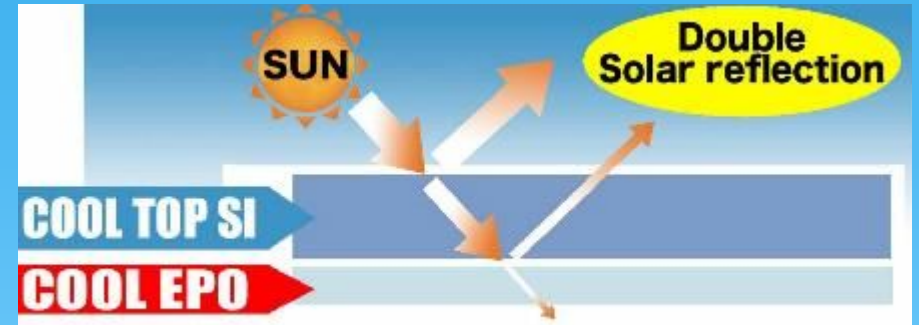
COOL TOP SI (SUZUKA)

Double Solar Reflective Technology

COOL EPO has the solar reflective function.
This can reflect the transmitted infrared light through
The top coat.



Heat entering a room from roof



Painting COOL EPO and COOL
TOP SI reflects sun light by
Double solar reflective technology.

Water Based Paint System

Generally EPOXY primer is oil based paint.
But COOL EPO and COOL TOP SI is the
Water based paint.

So their smell is not strong and they can reduce the
customers stress.

Eco Friendly Paint



With solar panel



So we should paint the roof first before setting solar panel on the roof as following reasons.

- ① There is no paint and steel roof to protect the roof for a long time in Viet Nam.
- ② Solar panel is very heavy. After setting it on the roof, it is very hard to remove it and paint the roof. And the customer should pay the fee.
- ③ While removing the solar panel, it can't convert to electricity.

Case1. No painting



Case2. Repairing by themselves



Case2. Repairing by themselves



Case2. Repairing by themselves



Area : Japan Company Name : ASUKA
Date : July /2012

Specification : SHAON COOL Method Measurement Object : Roof
Condition : Steel Color : Light Gray

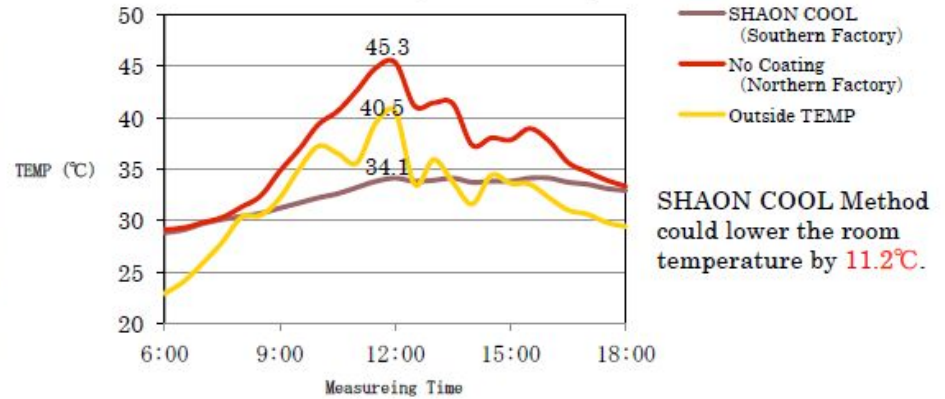
Before Painting



After Painting



Data:Thermometry Table(16/Sep)



Area : Vietnam Company Name : HONEST VIETNAM
Date : July/2016

Specification : COOL TOP SI SUPER Measurement Object : Roof
Condition : Steel Color : CS0118

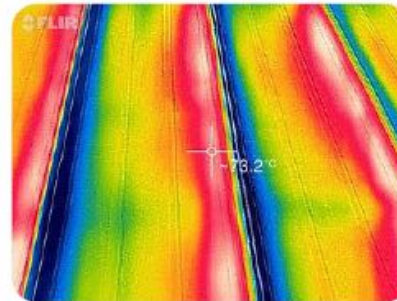
Before Painting



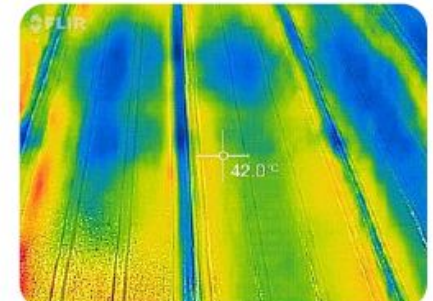
After Painting



Before Paintig : 73.2°C



After Painting : 42.0°C



Area : Vietnam Company Name : SAKURA PAINT VIENTAM
 Date : November/2015

Painting Method : COOL TOP #300Si
 Condition : Concrete

Area : Roof WaterProofing
 Color : White

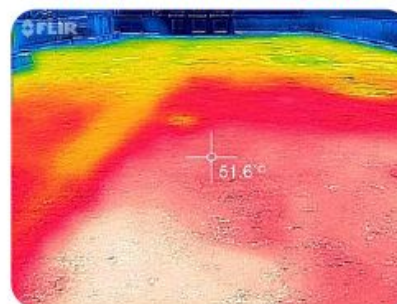
Before Painting



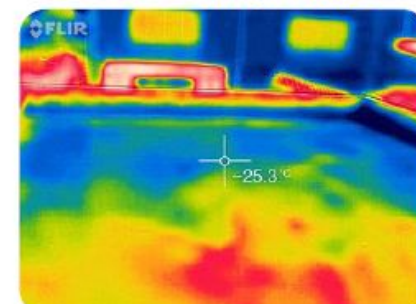
After Painting



Before Painting : 51.6°C



After Painting : 25.3°C



Area : Japan
 Date : May/2006

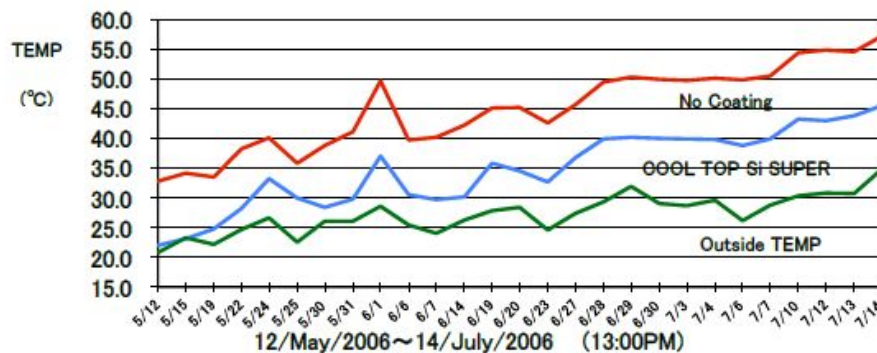
Painting Method : COOL TOP SI SUPER
 Condition : Stainless Steel

Area : Tank
 Color : CS0118

Before Painting



After Painting



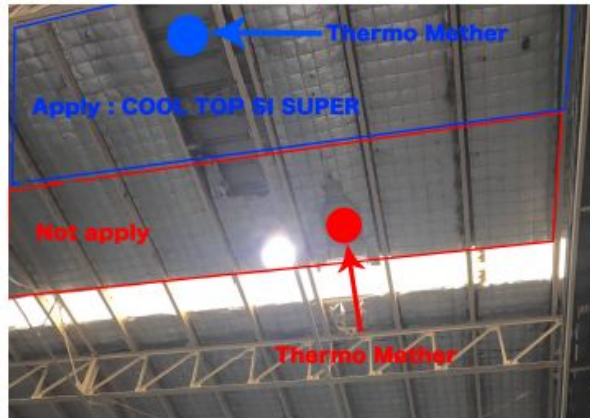
COOL TOP SI SUPER could lower the internal temperature of the tank by 10°C and succeeded saving a cooling expense.

Area : Bangkok , Customer : PressCraft(THILAND) CO.,LTD
 Date : December / 2016

Specification : COOL TOP SI SUPER
 Condition : Steel

Measurement Object : Roof
 Color : CS0118 (White)

Thermo Meter Setting Area : Indoor



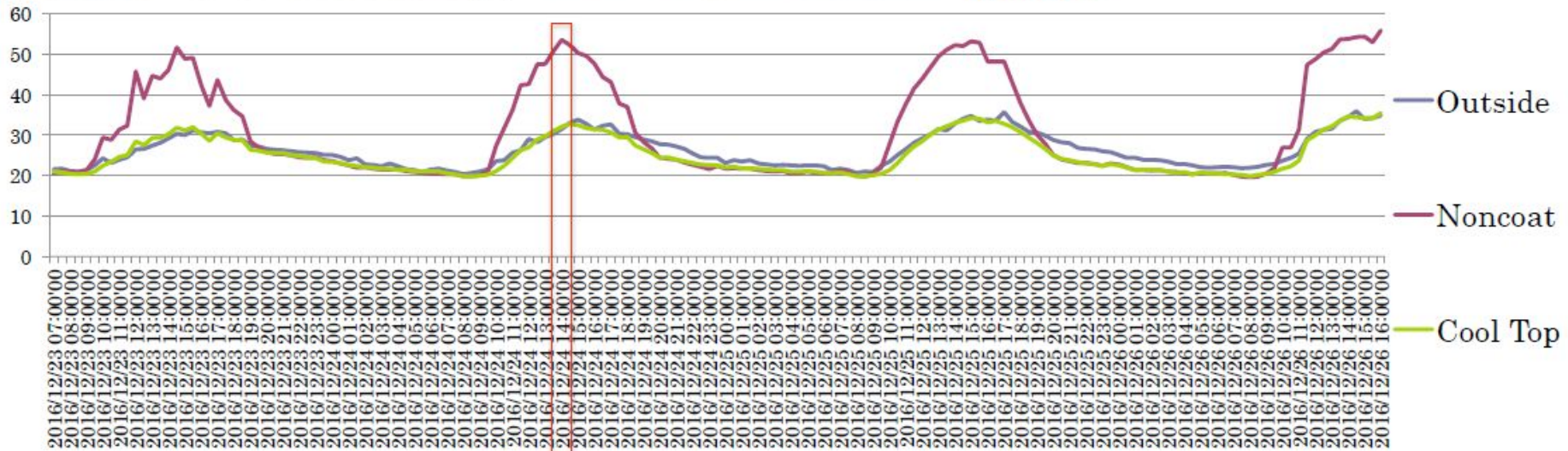
Thermo Meter Setting Area : Outdoor



The most temperature difference (24/Dec/2016)

Specification	Measurement Point	Indoor Temp
Cool Top	Under the roof (Top of the photo)	32.2°C
Non coat	Under the roof (Bottom of the photo)	53.6°C
Difference in Temp		21.4°C

Cool Top Si could lower the room Temp by **21.4°C**.



Area : Japan Company Name : CATTLE BARN

Date : August/2013

Painting Method : COOL TOP SI SUPER

Condition : Slate

Area : Roof

Color : CS0118

CATTLE BARN



No painting area : 46.2°C



Painting area : 30.9°C



COOL TOP SI SUPER
could lower the surface
temperature of the roof
by 15.3°C

Area : Thailand
Date : March/2018

Painting Area : 2,974 m²

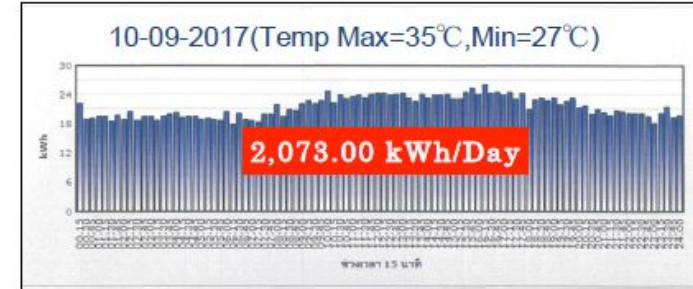
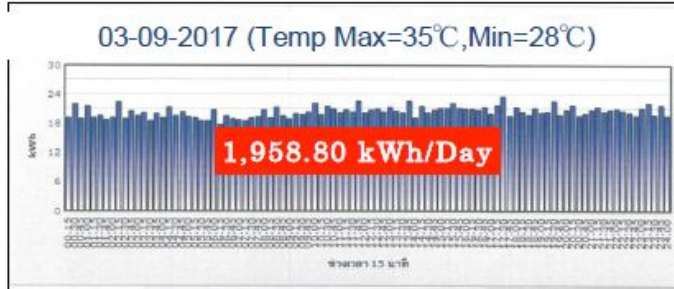
Specification : COOL TOP SI SUPER
Measurement Object : Roof

Color : CS0118(White)
Condition : Steel

Before Painting



Electric Energy Only for Air Conditioning (Before Painting)

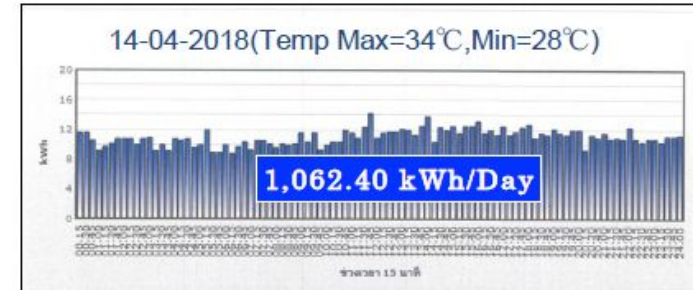
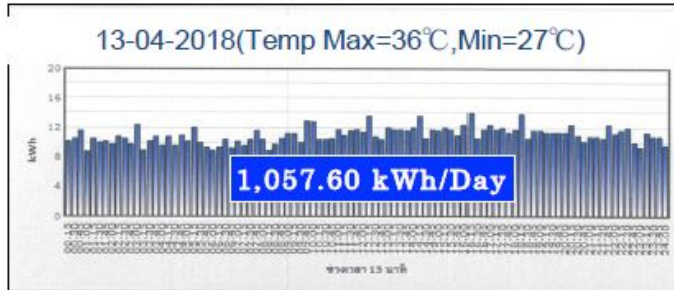


Check 2 Days = 1,958.80 + 2,073.00 = 4,031.80 kWh
Use electric energy average = 4,031.8 ÷ 2 ÷ 24 = 83.99 kWh

After Painting



Electric Energy Only for Air Conditioning (After Painting)



Check 2 Days = 1,057.60 + 1,062.40 = 2,120.00 kWh
Use electric energy average = 2,120.00 ÷ 2 ÷ 24 = 44.16 kWh

Can save electric energy = 83.99 - 44.16 = 39.83 kWh (47.42%)

The Lists of Painting Results

2023/8

Product	Property Name	Area	Painting Area	Painting Date
COOL TOP Si	TAKEBE	Thailand (Bangkok)	500m ²	2011
SOUND COOL	TOSHIBA CARRIER (PH-1)	Thailand (Bangkok)	7,560m ²	2014
SOUND COOL	TOSHIBA CARRIER (PH-2)	Thailand (Bangkok)	4,000m ²	2014
COOL TOP Si	KAISE(THAILAND)CO.,LTD	Thailand (Bangkok)	6,240m ²	2015
SOUND COOL	AOYAMA	Thailand (Bangkok)	4,674m ²	2015
SOUND COOL	FIRUTA&SUMMIT	Thailand (Bangkok)	840m ²	2015
COOL TOP Si	KAWASE(THAILAND)CO.,LTD	Thailand (Bangkok)	2,091m ²	2016
COOL TOP Si	Automobile Alliance Thailand (MAZDA AUTOMOBILE)	Thailand (Bangkok)	133,000m ²	2016
SOUND COOL	NFTT	Thailand (Bangkok)	6,263m ²	2016
COOL TOP Si	Pioneer Manufacturing (Thailand) Co., Ltd.	Thailand (Bangkok)	24,000m ²	2017
COOL TOP Si	JOHNSON CONTROLS-HITACHI COMPONETS(THAILAND)	Thailand (Bangkok)	7,200m ²	2017
COOL TOP Si	MEIKO SEIKI(THAILAND)CO.,LTD.	Thailand (Bangkok)	7,500m ²	2017
BEADS COAT	NISSINBO SOMBOON AUTOMOTIVE	Thailand (Bangkok)	1,770m ²	2018
BEADS COAT	TENMA(THAILAND)	Thailand (Bangkok)	1,250m ²	2018
BEADS COAT	ALPINE(THAILAND)	Thailand (Bangkok)	1,250m ²	2018
BEAULE Si	TOHO INDUSTRY	Thailand (Bangkok)	760m ²	2018
COOL TOP Si	TOHO INDUSTRY	Thailand (Bangkok)	2,500m ²	2018
COOL TOP Si	FURUKAWA SKY ALMINIUM	Thailand (Bangkok)	3,000m ²	2018
SOUND COOL	TOHO INDUSTRY(TAHILAND)	Thailand (Bangkok)	760m ²	2018
SF ENAMEL U	TOP TUBE Thailand	Thailand (Bangkok)	5,000m ²	2018
COOL TOP Si	FUJILLOY(THAILAND)	Thailand (Bangkok)	2,974m ²	2018
COOL TOP Si	SIAM KYOKUYO	Thailand (Bangkok)	11,449m ²	2019
COOL TOP Si	TAKEBE	Thailand (Bangkok)	8,300m ²	2019
BEADS COAT	NABA SARABURI	Thailand (Bangkok)	6,000m ²	2019
COOL TOP Si	Automobile Alliance Thailand (MAZDA AUTOMOBILE)	Thailand (Bangkok)	8,300m ²	2019
BEADS COAT	TOYO HITEC THAILAND	Thailand (Bangkok)	300m ²	2020
BEADS COAT	HITEC THAILAND	Thailand (Bangkok)	1,800m ²	2020
COOL TOP Si	CANON Prachinburi (Thailnad)	Thailand (Bangkok)	9,500m ²	2020
SUISEI URETHANE UNI	Jonhson Hitachi (Thailnad)	Thailand (Bangkok)	500m ²	2020
COOL TOP Si	CANON Prachinburi (Thailnad)	Thailand (Bangkok)	9,100m ²	2020
COOL TOP Si	TOYO FILLING(THAILAND)	Thailand (Bangkok)	600m ²	2020
COOL TOP Si	CANON Prachinburi (Thailnad)	Thailand (Bangkok)	7,020m ²	2021
SUISEI URETHANE UNI	NISSINBO SOMBOON AUTOMOTIVE	Thailand (Bangkok)	1,770m ²	2021
COOL TOP Si	TOYO FILLING(THAILAND)	Thailand (Bangkok)	7,020m ²	2022
COOL TOP Si	FURUKAWA SKY ALMINIUM	Thailand (Bangkok)	4,800m ²	2022
COOL TOP Si	NISSINBO SOMBOON AUTOMOTIVE	Thailand (Bangkok)	4,000m ²	2022
BEADS COAT	FUJIKEN VIETNAM VILLA	Vietnam (Hanoi)	4,933m ²	2016
COOL TOP Si	HONEST VIETNAM CO.,LTD.	Vietnam (Hanoi)	3,240m ²	2016
AEP X	789 CORPORATION BUILDING	Vietnam (Hanoi)	116,167m ²	2017
AEP X	789 CORPORATION VILLA	Vietnam (Hanoi)	14,000m ²	2017
AEP X	DUCPHUONG MULTI FUNCTION BUILDINGS	Vietnam (Hanoi)	30,000m ²	2017
COOL TOP Si	CHIYODA INTEGRE VIETNAM CO., LTD.	Vietnam (Hanoi)	8,500m ²	2017
AEP ENAMEL SILK	789 CORPORATION BUILDING	Vietnam (Hanoi)	227,781m ²	2017

The Lists of Painting Results

2023/8

COOL TOP Si	CANON VIETNAM'(Thanh Long FACTORY)	Vietnam (Hanoi)	31,722m ²	2018
COOL TOP Si	SHOWA VALVE VIETNAM	Vietnam (Hanoi)	1,500m ²	2019
AEP X	THE LEGACY	Vietnam (Hanoi)	29,240m ²	2019
COOL TOP Si	CANON VIETNAM(Tien Du FACTORY)	Vietnam (Hanoi)	29,240m ²	2019
COOL TOP Si	KANE PACKAGE VIETNAM	Vietnam (Hanoi)	1,500m ²	2020
COOL TOP Si	THANG LONG TABACO	Vietnam (Hanoi)	3,000m ²	2020
COOL TOP Si	KOHSEI MULTI PACK VIETNAM	Vietnam (Hanoi)	2,500m ²	2020
COOL TOP Si	TOPY FASTENERS VIETNAM CO., LTD	Vietnam (Hanoi)	600m ²	2020
COOL TOP Si	JDF VIET COMPANY	Vietnam (Hanoi)	1,000m ²	2020
COOL TOP Si	KANE PACKAGE VIETNAM	Vietnam (Hanoi)	6,800m ²	2020
COOL TOP Si	ESSENTEC	Vietnam (Hanoi)	600m ²	2020
COOL TOP Si	Trường Tiểu học Vinschool Green Bay	Vietnam (Hanoi)	600m ²	2021
COOL TOP Si	Trường PTLC Vinshool Golden River	Vietnam (Hanoi)	400m ²	2021
COOL TOP Si	Trường tiểu học Vinschool Time City	Vietnam (Hanoi)	4,600m ²	2021
COOL TOP Si	CANON VIETNAM(Que Voo FACTORY)	Vietnam (Hanoi)	78,000m ²	2021
COOL TOP Si	NISSEI ELECTRIC HANOI	Vietnam (Hanoi)	1,500m ²	2021
COOL TOP Si	MARUJYU VIETNAM	Vietnam (Hanoi)	2,000m ²	2021
COOL TOP Si	Vinschool Green Bay	Vietnam (Hanoi)	600m ²	2021
COOL TOP Si	NIPPON KONPO VIETNAM	Vietnam (Hanoi)	13,600m ²	2021
COOL TOP Si	NAGATSU VIETNAM	Vietnam (Hanoi)	500m ²	2021
COOL TOP Si	JTEC HANOI	Vietnam (Hanoi)	1,270m ²	2021
COOL TOP Si	NICHIRIN VIETNAM	Vietnam (Hanoi)	5,400m ²	2021
COOL TOP Si	Vung Ang 1 thermal power plant – PV POWER	Vietnam (Hanoi)	3,322m ²	2021
AEP X	NATIONAL MONEY PRINTING FACTORY	Vietnam (Hanoi)	50,000m ²	2021
COOL TOP Si	TACHIBANA VIETNAM	Vietnam (Hanoi)	2,900m ²	2022
COOL TOP Si	HITACHI ASTEMO	Vietnam (Hanoi)	4,500m ²	2022
COOL TOP Si	JTEC HANOI VIETNAM	Vietnam (Hanoi)	5,500m ²	2022
COOL TOP Si	Nichirin	Vietnam (Hanoi)	5,500m ²	2022
COOL TOP Si	JTEC HANOI VIETNAM	Vietnam (Hanoi)	6,000m ²	2022
COOL TOP Si	Meiko Electronics Vietnam	Vietnam (Hanoi)	1,150m ²	2022
COOL TOP Si	Asahi Denso Vietnam	Vietnam (Hanoi)	1,750m ²	2022
COOL TOP Si	TOA Vietnam	Vietnam (Hanoi)	3,300m ²	2022
COOL TOP Si	Cong Ty A.S.A	Vietnam (Hanoi)	1,000m ²	2022
COOL TOP Si	NISSEI ELECTRIC HANOI	Vietnam (Hanoi)	4,800m ²	2023
COOL TOP Si	SUMITOMO DRIVE TECHNOLOGY	Vietnam (Hanoi)	2,000m ²	2023
COOL TOP Si	YAMAHA VIETNAM	Vietnam (Hanoi)	1,800m ²	2023
COOL TOP Si	NICHIRIN VIETNAM	Vietnam (Bac Giang)	5,600m ²	2020
COOL TOP Si	TACHIBANA VIETNAM	Vietnam (Ha Nam)	2,900m ²	2020
COOL TOP Si	ISHIGAKI VIETNAM	Vietnam (Ha Nam)	1,000m ²	2021
COOL TOP Si	Cong may Nhan Khang	Vietnam (Ha Nam)	1,000m ²	2022
COOL TOP Si	ISHIGAKI VIETNAM	Vietnam (Ha Nam)	1,950m ²	2022
COOL TOP Si	SUMIDENSO VIETNAM (MD1)	Vietnam (Hai Duong)	18,670m ²	2023
COOL TOP Si	SUMIDENSO VIETNAM (MD2)	Vietnam (Hai Duong)	19,722m ²	2023
COOL TOP Si	NORTHSTAR PRECISION VIETNAM	Vietnam (Vinh Phuc)	1,650m ²	2022

COOL TOP Si	HITACHI ASMOS COMPANY	Vietnam (Hung Yen)	4700m ²	2022
COOL TOP Si	VIETNAM ARAI	Vietnam (Hai Phong)	3,600m ²	2018
COOL TOP Si	KOKUY VIETNAM Co.,Ltd.	Vietnam (Hai Phong)	9,200m ²	2020
COOL TOP Si	VIETNAM KYORITSU	Vietnam (Hai Phong)	1,200m ²	2022
COOL TOP Si	TOMOKU VIETNAM	Vietnam (Ho Chi Minh)	26,200m ²	2014
COOL TOP Si	SAIGON FASION	Vietnam (Ho Chi Minh)	1,000m ²	2014
COOL TOP Si	Three Bambi Vietnam Co.,Ltd	Vietnam (Ho Chi Minh)	1,600m ²	2015
BEADS COAT	FUJI SEAL	Vietnam (Ho Chi Minh)	1,600m ²	2016
COOL TOP Si	TRI-VIET INTERNATIONAL CO.,LTD.	Vietnam (Ho Chi Minh)	3,240m ²	2016
BEAULE SI MAT	WATERINA SUITES	Vietnam (Ho Chi Minh)	15,162m ²	2017
COOL TOP Si	SHIMADA SYOUJI	Vietnam (Ho Chi Minh)	1,750m ²	2017
COOL TOP Si	Gunze (Vietnam)	Vietnam (Ho Chi Minh)	2,000m ²	2017
SOUND COOL	KOATSU GAS VIETNAM	Vietnam (Ho Chi Minh)	2,000m ²	2017
COOL TOP Si	THUPHAHU COMPANY	Vietnam (Ho Chi Minh)	10,000m ²	2018
COOL TOP Si	SB Pearl Fashion	Vietnam (Ho Chi Minh)	5,300m ²	2018
SF ENAMEL EL	NIPRO VIETNAM	Vietnam (Ho Chi Minh)	23,707m ²	2018
DANSEI EM ENAMEL SEMI-GLOSS	UCHIYAMA VIETNAM	Vietnam (Ho Chi Minh)	9,684m ²	2018
AEP ENAMEL SILK	NIPRO VIETNAM	Vietnam (Ho Chi Minh)	62,778m ²	2018
AEP ENAMEL SILK	UCHIYAMA VIETNAM	Vietnam (Ho Chi Minh)	3,700m ²	2018
COOL TOP Si	PEGASUS SHIMAMOTO	Vietnam (Ho Chi Minh)	5,558m ²	2019
COOL TOP Si	Gunze (Vietnam)	Vietnam (Ho Chi Minh)	2,760m ²	2019
COOL TOP Si	Duel Vietnam	Vietnam (Ho Chi Minh)	2,000m ²	2019
COOL TOP Si	CHUBU RIKI VIET NAM Co., Ltd.	Vietnam (Ho Chi Minh)	1,500m ²	2019
COOL TOP Si	TOHOKU CHEMICAL INDUSTRIES Co., Ltd.	Vietnam (Ho Chi Minh)	612m ²	2019
BEAULE SI MAT	SUN OKI VIETNAM	Vietnam (Ho Chi Minh)	927m ²	2019
COOL TOP Si	FC VIETNAM	Vietnam (Ho Chi Minh)	2,000m ²	2020
SOUND COOL	TAIYO BRUSH VIETNAM Co.,Ltd.	Vietnam (Ho Chi Minh)	5,630m ²	2020
COOL TOP Si	SHIMADA SYOUJI	Vietnam (Ho Chi Minh)	11,000m ²	2020
COOL TOP Si	SAIGON PRECISION	Vietnam (Ho Chi Minh)	12,100m ²	2020
COOL TOP Si	Trường PTLC Vinshool Golden River	Vietnam (Ho Chi Minh)	400m ²	2021
COOL TOP Si	MUTO VIETNAM	Vietnam (Ho Chi Minh)	11,000m ²	2021
COOL TOP Si	LOTTE VIETNAM	Vietnam (Ho Chi Minh)	10,000m ²	2022
BEADS COAT	INTEL VIETNAM	Vietnam (Ho Chi Minh)	7,000m ²	2022
COOL TOP Si	NEW VIETNAM	Vietnam (Ho Chi Minh)	9,000m ²	2023
COOL TOP Si	SAKAI CHEMICAL	Vietnam (Ho Chi Minh)	3,000m ²	2023
COOL TOP Si	MEIWA VIETNAM	Vietnam (Ho Chi Minh)	18,000m ²	2023
COOL TOP Si	NISSEI ELECTRIC VIETNAM	Vietnam (Ho Chi Minh)	4,000m ²	2023
COOL TOP Si	SAKAI CHEMICAL	Vietnam (Ho Chi Minh)	6,000m ²	2023
COOL TOP Si	NAGAE VIETNAM	Vietnam (Ho Chi Minh)	5,000m ²	2023