Points to choose a products of thermal barrier insulation glass coating for energy-saving measures

For all customers who need our support to success your thermal barrier coating projects

- 1) Knowledge of Products (Product description)
- 2) Thermal insulation effect in summer
- 3) Thermal insulation effect in winter \Rightarrow condensation prevention function
- 4) Comparison to other products: Application
- 5) Comparison to other products: Performance
- 6) The difference of thermal barrier materials such as ATO, CTO and ITO.
- 7) Comparison of Thermal barrier performance and price
- 8) Compare to other products
- 9) Compare to other products: Verification after application
- 10) Compare to other products: SKETCH support program
- 11) Simulation of profit: Application to 100sqm, 1000sqm, 10,000sqm
- 12) The example of pay back simulation



For all customers who need our support to success your thermal barrier coating projects

Currently, it has been attracting attention to thermal barrier glass coat as global warming measurement. By applying a thermal barrier glass coating to glass-walled building, we aim to reduce air conditioning costs 20 percent to 30 percent.

In Japan, it became a power shortage in eastern Japan, Tohoku because there was an Fukushima nuclear power plant accident after the earthquake on March 11, 2011. At that time, Thermal barrier coating applied to save energy on the building windows. From that time, the thermal barrier insulating glass coat of Japan became popular to all over the world because energy-saving effect is high.

In 2016, There are 10 several companies of thermal barrier maker in Japan, and three companies in China.

However, the customer does not know what the manufacturer of the product is excellent. So it is important to convey to the consumer to know the superior surface of the product by comparing the cost and performance and construction methods from every angle.

SKETCH will support the company which starts a new thermal barrier insulation glass coating business how to promote the coating to the customer.

The most important point is the comparison of the thermal barrier performance. Thermal barrier material, ATO has been the most sold currently. However, the heat shield is not enough at the place where people feel the hot. In the equator, the infrared cut-off rate of around 80% H-SP, or more than 90% of H-SC is the suitable compare to the infrared cut 50 percent of the ATO.

Thermal barrier material of SKETCH is CTO and CTO + ITO (CTO-I). Because these cost is higher than ATO material cost and still need time to develop, other companies do not use them. About price, these compared with ATO is about 150 yen higher in the material cost of the square meter, but it does not affect most of the application price and profit margins. The payback period of CTO and CTO-I is two to three years shorter than ATO because thermal barrier performance is superior about energy-saving rate of the air-conditioning costs after application.

Then, the roller application of SKETCH does not have coating unevenness.

Modify in application process is also a simple, thermal barrier performance is uniform. In particular, since glass coat of other companies applied to the large window glass of a height of more than 3m is difficult, the product of SKETCH will be advantageous.

<u>Sketch was sold insulation coat 1 million square meters worth to the world 20 countries.</u>

We know any details of thermal insulation coat, and advise on appropriate sales methods. We can introduce the superiority of SKETCH product such as in the finish after the application, the thermal barrier performance and application method.

And when you have the knowledge of SKETCH products, you can compare with other companies products using ATO. Currently, CTO or CTO + ITO is not well known. So we will show you how to compare the products before you start the business of Thermal Barrier coating, and learn how to compare the performance and application method with other companies. And let's promote SKETCH coating together.

In this way, you can save the investment and your valuable time.

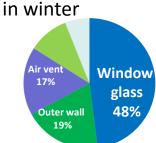
Since June 2016, we will apply the insulation coating with 3,900JPY per 1sqm and propose new business plan, three years payback plan. For those who want to start the insulation coat business of SKETCH, we will introduce the product knowledge, Roller application and verification methods, and continue to support your business. First of all, please consider the distributorship after reading this document.

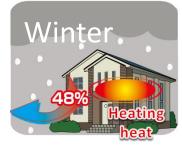
■71% of Heat enters from the window glass in Summer





48% of Heat escapes from the window glass





■ Electric power in Summer

1) Knowledge of Products (Products description)

1) Summer enters 72% solar heat from the window, winter escape 42% Heating heat from the window.

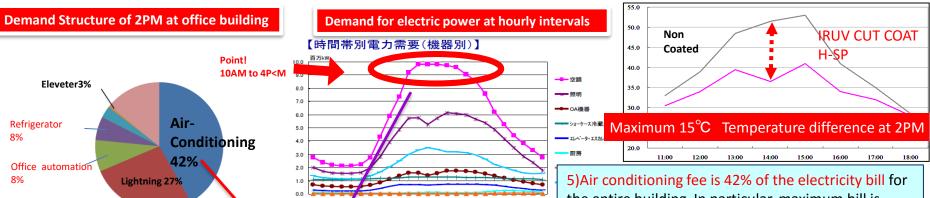
It is effective for reduction of air conditioning costs by applying to the window glass. When the area of the window glass is large such as buildings, it enter the solar heat especially in the summer and during the day.

- 2) The summer and during the daytime when the solar heat is hot, the temperature difference is large between coated and non-coated surface.
- 3) In winter, the coating cut more than 90% of indoor heating heat (far-infrared ray), and prevent to escape heat from the window. It can keep the solar heat that has entered the room during the day; the room temperature is 2-3 degrees higher after the application.

The temperature of air conditioning will be lower from 2 to 3 degrees.

4)The coating surface has high water repellency and there is a condensation deterrent effect. Moreover, the coated surface is highly endothermic, it can delay to occur the condensation because the glass increase warmth.

Dew condensation suppression effect is 50% or more.

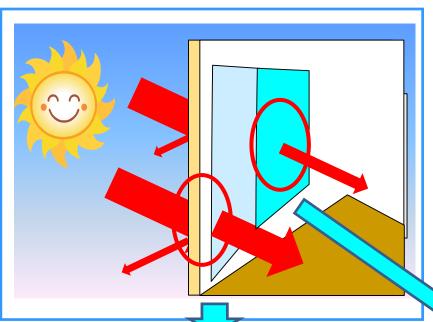


The Information From Agency for Japanese Natural Resources and Energy on May,2011

The Point is Peak hour cut of the Air-Conditioning during 10AM to 4PM

5)Air conditioning fee is 42% of the electricity bill for the entire building. In particular, maximum bill is from 10AM to 4PM in summer. The most effective of the air conditioning cost reduction is to apply the thermal barrier insulation coat of window glass.

2)Thermal insulation effect in summer



1) Cut direct sun heat (near-infrared) more than 80% in summer

The room temperature will drop 2-3degrees, and maximum 10 degrees or more near a window. = Reduction of air conditioning costs is 20 to 30 percent.

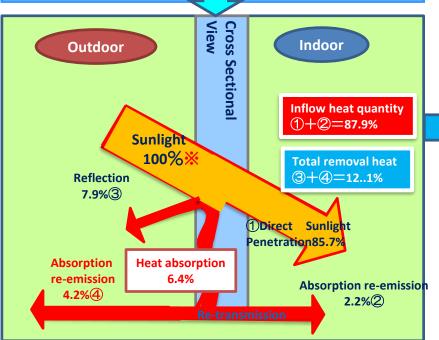
2) After IRUV CUT COAT H-SP coated, the visible light transmittance is substantially unchanged, and cut 80 % of IR (infrared) or more. To absorb the heat on the coated surface of the glass, two-thirds of the heat re-emission to the outside.

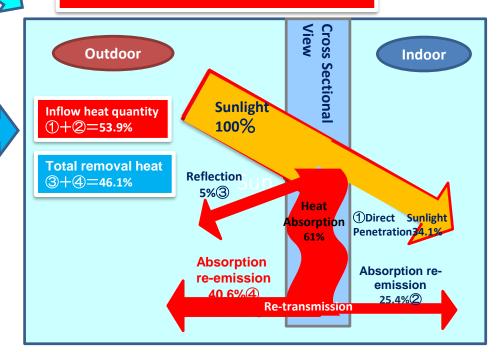
3) 99% of UV-cut

In particular, it is ideal for strong ultraviolet such as Southeast Asian countries and Australia and New Zealand where have an ozone hole.

Prevention to faded, stains, and freckles.

IRUV CUT COAT H-SP Performance

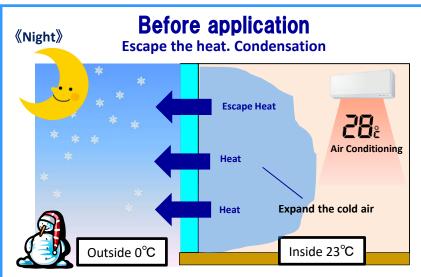




3) Thermal Insulation effect in winter ⇒ condensation prevention function

The principle of heat transfer >Heat moves from hot to a cold place.

>There are two types of heat, solar direct heat (Near-infrared) and radiant heat ,heating heat(Far-infrared) .



①Turn on the heating, warmed air will escape from the window because the temperature of the window is very low. ② Moisture in the room adheres to the cold window, then it is wet with condensation.

After Application Window Class Air Conditioning Keep the heating heat Outside 0°C Inside 25°C

① Turn on the heating, coating is absorbed the heat and two-thirds of the absorbed heat does not escape, even if lowering the set temperature of the air conditioning warm. ② The window becomes warmer after application and the windowpane absorbs the heat, Then the condensation will be reduces.

The window becomes warm, and a condensation suppression effect

Before Application
2007/10/19
High condensation
until 3pm. The
window becomes
frozen when it is a
cold day in winter.
Even the window
can not open.

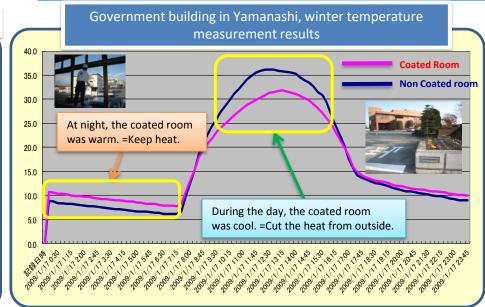
After Application 2007/10/21 It is obviously improved to reduce the condensation during the day

time.

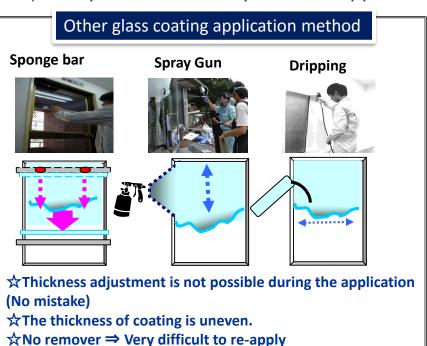


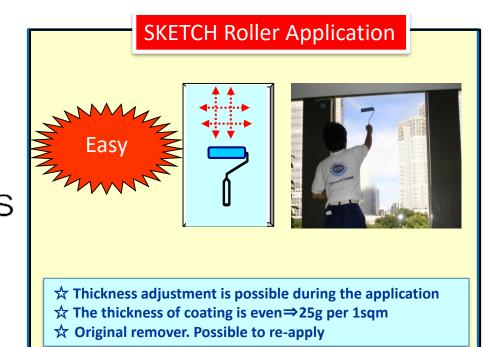






4) Comparison to other products: Application







Smart coat

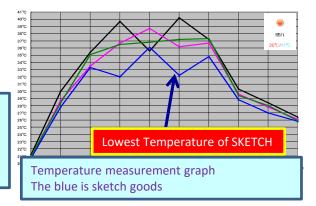




Compared to other glass coating on April 2011. Effect was evident by comparing the actual performance

Three coating was applied to 4sqm of window glass, to measure the temperature in four days. IRUV had a temperature difference from 4 to 6 degrees compared to others.

After the verification, 3800sqm was coated.



Films

Sketch

IRUV CUT COAT

- •It takes time to learn the techniques of application.
- •20% of material cost is loss during the application.

VS

IRUV CUT COAT Series

- •Easy to learn the application for 2 to 3 hours..
- •Only 50g of IRUV is loss during the application.

This is for the roller absorption. The quantity depends on the roller.

5) Comparison to other products: Performance

Learn the differences of other coating application methods. It confirm the thermal barrier performance and easy uniformly application.

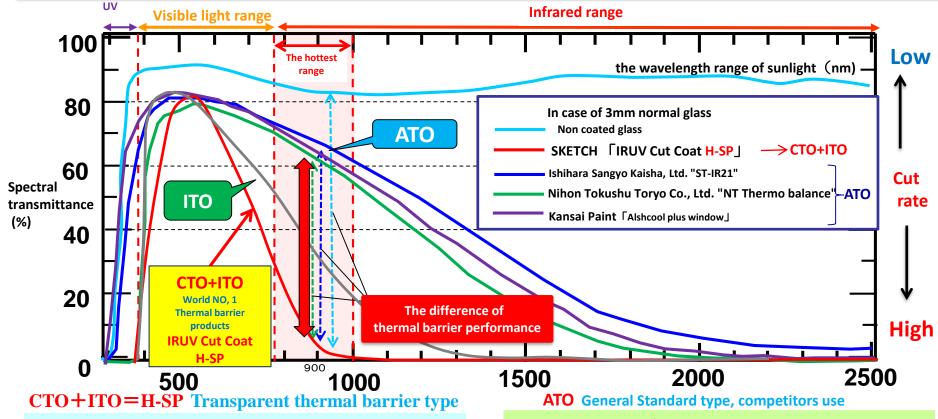
Note: Sometimes other products introduces the patent of the application method as material patent. Please check the patent content.

The world's first, Super-hydrophilic primer Simple application, no oil film taking, double application area

Application Methods	Sponge bar, Spray gun, Roller, Dripping	SKETCH Roller Application		
Products	Kansai Paint = Alschool plus window Ishihara Sangyo Kaisha, Ltd. = STIR Nihon Tokushu Toryo Co., Ltd. = Thermo balance Die flex = UI shield For you = at shield clear Fumin = Fumin Coat China manufacturer ECOP = Krystal bond Asukurin = cool save Daiko technical = Eco-glass coat	SKETCH ECO SHOP/ECO Business Club IRUV CUT COAT H-SP IRUV CUT COAT H-SC		
Application per 1person a day	15sqm to 20sqm	40 to 50sqm: No nessesary Degreaser		
Degreaser	Nessesary	No: Super hydrophilic Primer		
More than 3sqm of glass Difficult, uneveness		Easy, even thickness		
Amount of 1sqm	20∼25g	25 g		
Thermal barrier materials	Mostly ATO (90%) or ITO	сто+іто		
IR CUT	About 50%	H-SP 80 % ~ ∶ H-SC 90% ~		
Application Training	It takes time to learn the application	One day training		
Others	Long preparation, uneven surface and thickness	Easy application, even application, possible to Reapply		

6)The difference of thermal barrier materials such as ATO, CTO and ITO

In solar energy (solar radiation), the wavelength ranges which the person feels hot is up to about 1500nm. Wavelength close to visible light (VL) (800nm ~ 1000nm) is the heat of summer. High performance of IR cut is possible to cut the heat around 900nm.IRUV can cut significantly around 900nm, so SKETCH uses CTO + ITO. But, Kansai Paint and other two companies, which are using the high cost and lower performance of ATO. The thermal barrier performance of ATO is not good enough in summer.



CTO+ITO = H-SP is, about 80% of visible light transmittance and cut 80% or more near-infrared. It is easy application and high performance. 1kg of Thermal barrier material cost is 36,000 yen. In particular, it is ideal for hot summer and the countries of the equator. In the case of $1 \text{ m}^3 3900$ yen and 30% of the energy-saving rate, the payback period is about three years.

ATO is to cut the entire infrared evenly, balanced material.

1kg material cost is from 12000 yen to 15000 yen. It cuts significantly more than the wavelength of 1500nm such as radiant heat coming from people and heating heat., to prevent the escaping the indoor heat from the window glass. But it is not suitable for the thermal barrier in summer.



UV CUT 100%
IR CUT 85.2%
VL transmittance 76.2%

VS



UV CUT	99.5%
IR CUT	43%
VL transmittance	85%

7) Comparison of Thermal barrier performance and price

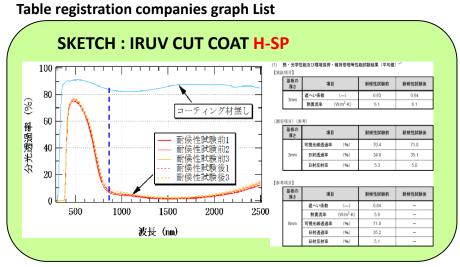
Thermal barrier performance and visible light transmittance are difference by the infrared cut material such as ATO, ITO,CTO,CTO+ITO,. Therefore, you need to know which thermal barrier Nano material uses.

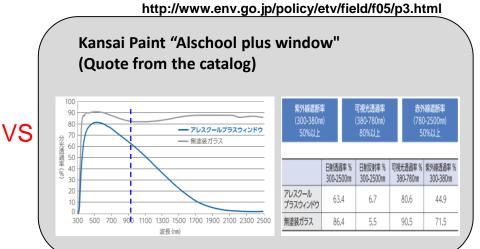
Also compare the material cost of square meter and application area per 1kg.

Market	90% of product	s in the market		3 or 5 year Payback plan	
Maker	Other makers (includes SKETCH)		H-SC	H-SP	
Thermal barrier material	АТО	ITO	СТО+ІТО	СТО+ІТО	
Thermal barrier price	14,000JPY/kg	80,000JPY/kg	40,000PY/kg	36,000JPY/kg	
Thermal barrier material : 25% of finished product	3,500JPY/kg	20,000JPY/kg	10,000JPY/kg	9,000JPY/kg	
Plus UV base: 75% of Finished product	15,000JPY/kg 15,000JPY/kg		15,000JPY/kg	15,000JPY/kg	
Manufacture Price	18,500JPY/kg	35,000JPY/kg	25,000JPY/kg	24,000JPY/kg	
Sales Price 30,000JPY/kg \$\{\}\\$ 40,000JPY/kg		80,000JPY/kg \ 100,000JPY/kg	25,000JPY/kg { 40,000JPY/kg	25,000JPY/kg	
Material cost per 1sqm (1kg=40sqm)	750JPY~1,000JPY	2,000JPY~2,500JPY	625JPY∼1,000JPY	625JPY∼938JPY	
Application Price per 1sqm	10,000JPY/sqm	15,000JPY/sqm	7,000JPY/sqm~ ~8,800JPY/sqm	3,000JPY/sqm~ ~5,000JPY/sqm	
Visible light transmittance	About 72%	Over 80%	About 72%	80%	
IR cut	About 50%	About 50%	90%~	80%~	
Saving Energy(Example)	10%	10%	30%	20%~30%	

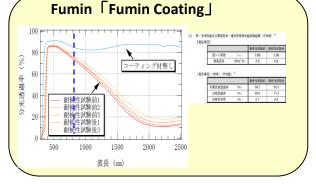
8) Compare to other Products

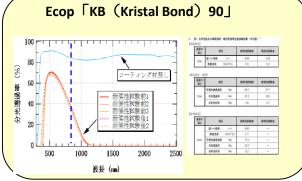
References ① Ministry of the Environment, environmental technology demonstration project ETV

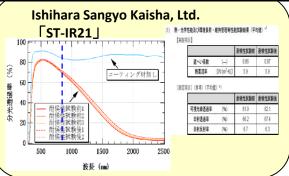




Comparison	SKETCH	Kansai Paint		
Comparison	IRUV CUT COAT H-SP	Alschool plus window		
IR Cut/UV Cut/ VLT	<mark>80%/</mark> 99%/75%	50%/50%/80%		
Thermal Barrier Products	CTO+ITO	ATO		
Manufacture Price/ Slaes Price	24,000JPY/25,000JPY~37,500JPY	18,500JPY/~40,000JPY (Estimation)		
Application price per 1sqm	3,000/3,900/5,000JPY	10,000JPY ~ 12,000JPY (Estimation)		
Energy saving rate by air conditioning	20~30% energy saving	10% energy saving		
Application Method	Apply without glass cleaner	Nessesary to Glass Cleaning		







9) Compare to other products: Verification after application

Application to the glass and to see if the same performance as the company's catalog.

- It cannot be determined at sample glass. Most important point is to apply more than 1 sqm and verify the performance.
- · Measure the value such as IR cut, UV cut, VLT rate with the split type of optical characteristic device to coated window glass.
- Check the unevenness surface, distortion, dripping with your eyes.
- *Temperature measuring coated and uncoated surface. Comparing the temperature of the day. (Using Thermocron or HLT-100BT.)
- •Temperature difference comparison by an infrared sensor and infrared lamps.

Example of Catalogs





Nihontokushutoryo



Ishihara Sangyo Kaisha, Ltd.



Check the surface after the application



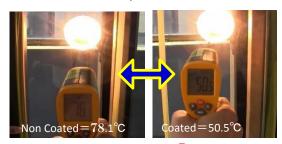
3Temperature measurement for a certain period of time by Thermocron

Verification the performance after the application

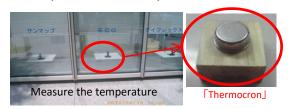
Measurement across the machine to coated glass

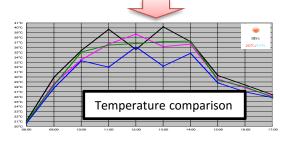


②By applying a lamp from the inside, measured at a temperature.



Temperature measurement





10) Compare to other products: SKETCH support program

How to achieve the application project!

- References: Application examples, Technical data, Sales tools, manuals, Catalog and WEB support and training.
- •SKETCH supports "3 to 5 years payback plan".
- Training for sales of flow, demonstration, temperature measurement, training, and income simulation
- · Videos , YouTube, introduces products, application etc. (Japanese, English, Chinese)
- •SKETCH can support seminars, exhibitions, application for a big project.

SETSUDEN ECO SHOP Web site

Download all documents from web-site



http://www.ecoshop-onlineshop.com/

YouTube

Japanese



https://www.youtube.com/channe I/UC5WOahrpZHhEI-pt6sgONZg

English



https://www.youtube.com/? hl=ja&gl=JP

Youku in China





http://v.youku.com/v show/id XMT Q3MzMyMDYwNA==.html

Sales training



Application



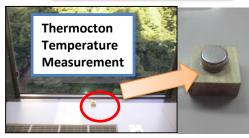
Seminar



Training for the actual site



Temperature measurement Saving Energy Simulation



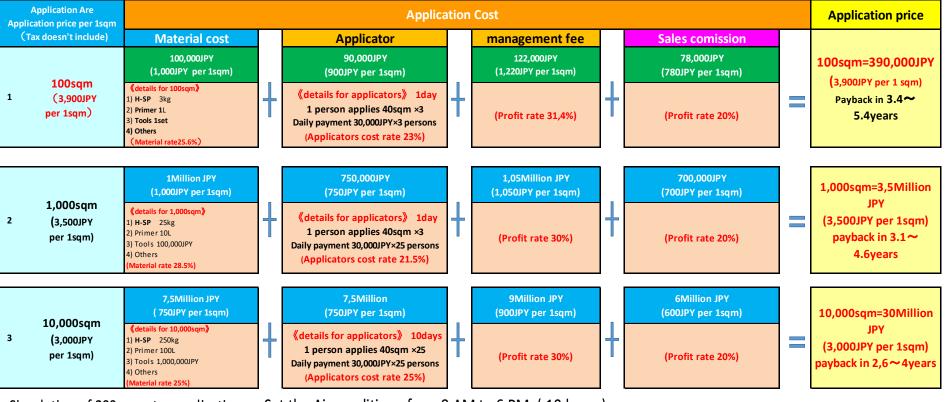


Calculate the temperature and make the graph

temperature

11) Simulation of profit: Application to 100sqm, 1000sqm, 10,000sqm/ 2.6 to 5.2 years Payback

IRUV Cut Coat Hyper-SP Simulation of profit



Simulation of 200sq meter application Set the Air conditiong from 8 AM to 6 PM. (10 hours)

	Application Price		200sqm application	Electricity fee /kwh	Electricity fee /a year	Reduction of 20%	Initial investment recovery	Reduction of 30%	Initial investment recovery
	JAPAN	3,900 JPY/sqm	780,000 JPY	22 JPY	1,108,800 JPY	221,760 JPY	3.5 yrs	332,640 JPY	2.3 yrs
	China	3,000 JPY/sqm	600,000 JPY	15 JPY	756,000 JPY	151,200 JPY	4.0 yrs	226,800 JPY	2.6 yrs
		3,500 JPY/sqm	700,000 JPY	15 JPY	756,000 JPY	151,200 JPY	4.6 yrs	226,800 JPY	3.1 yrs
China	3,900 JPY/sqm	780,000 JPY	15 JPY	756,000 JPY	151,200 JPY	5.2 yrs	226,800 JPY	3.4 yrs	
		5,000 JPY/sqm	1,000,000 JPY	15 JPY	756,000 JPY	151,200 JPY	6.6 yrs	226,800 JPY	4.4 yrs

12) The example of pay back simulation

Simulation of 200sq meter application Set the Air conditiong from 8 AM to 6 PM. (10 hours)

Application Price		200sqm application	Electricity fee /kwh	Electricity fee /a year	Reduction of 20%	Initial investment recovery	Reduction of 30%	Initial investment recovery
JAPAN	3,900 JPY/sqm	780,000 JPY	22 JPY	1,108,800 JPY	221,760 JPY	3.5 yrs	332,640 JPY	2.3 yrs
	2,500 JPY/sqm	500,000 JPY	15 JPY	756,000 JPY	151,200 JPY	3.3 yrs	226,800 JPY	2.2 yrs
China	3,000 JPY/sqm	600,000 JPY	15 JPY	756,000 JPY	151,200 JPY	4.0 yrs	226,800 JPY	2.6 yrs
Cilila	3,900 JPY/sqm	780,000 JPY	15 JPY	756,000 JPY	151,200 JPY	5.2 yrs	226,800 JPY	3.4 yrs
	5,000 JPY/sqm	1,000,000 JPY	15 JPY	756,000 JPY	151,200 JPY	6.6 yrs	226,800 JPY	4.4 yrs
	2,500 JPY/sqm	500,000 JPY	20 JPY	1,008,000 JPY	201,600 JPY	2.5 yrs	302,400 円	1.7 yrs
Hong Kong	3,000 JPY/sqm	600,000 JPY	20 JPY	1,008,000 JPY	201,600 JPY	3.0 yrs	302,400 円	2.0 yrs
Hong Kong	3,900 JPY/sqm	780,000 JPY	20 JPY	1,008,000 JPY	201,600 JPY	3.9 yrs	302,400 円	2.6 yrs
	5,000 JPY/sqm	1,000,000 JPY	20 JPY	1,008,000 JPY	201,600 JPY	5.0 yrs	302,400 円	3.3 yrs
	2,500 JPY/sqm	500,000 JPY	21 JPY	1,058,400 JPY	211,680 JPY	2.4 yrs	317,520 JPY	1.6 yrs
Cingonoro	3,000 JPY/sqm	600,000 JPY	21 JPY	1,058,400 JPY	211,680 JPY	2.8 yrs	317,520 JPY	1.9 yrs
Singapore	3,900 JPY/sqm	780,000 JPY	21 JPY	1,058,400 JPY	211,680 JPY	3.7 yrs	317,520 JPY	2.5 yrs
	5,000 JPY/sqm	1,000,000 JPY	21 JPY	1,058,400 JPY	211,680 JPY	4.7 yrs	317,520 JPY	3.1 yrs
	2,500 JPY/sqm	500,000 JPY	15 JPY	756,000 JPY	151,200 JPY	3.3 yrs	226,800 JPY	2.2 yrs
Philippines	3,000 JPY/sqm	600,000 JPY	15 JPY	756,000 JPY	151,200 JPY	4.0 yrs	226,800 JPY	2.6 yrs
Myanmar	3,900 JPY/sqm	780,000 JPY	15 JPY	756,000 JPY	151,200 JPY	5.2 yrs	226,800 JPY	3.4 yrs
	5,000 JPY/sqm	1,000,000 JPY	15 JPY	756,000 JPY	151,200 JPY	6.6 yrs	226,800 JPY	

IRUV CUT COAT series ENGLISH references

You Tube

①HOTガードH-SP商品CM

②施工手順動画

③大きい窓ガラス施工動画

4)性能紹介動画

⑤施工失敗事例動画

6 剥離手順動画

⑦サーモクロン温度測定方法

https://youtu.be/j4HiOqPIIPM

https://youtu.be/2m2wt45sriQ?list=PL6e1vlgGgFvPXt7i1ko6Xv_B79V_9dDxl

https://youtu.be/0rQ67xcT2yQ

https://youtu.be/M2s5qHL16Yw?list=PL6e1vlgGgFvPXt7i1ko6Xv B79V 9dDxl

https://youtu.be/km22 zL7b8k?list=PL6e1vlgGgFvPXt7i1ko6Xv B79V 9dDxl

https://youtu.be/LI-HH6VxmdY

https://youtu.be/E7VWtgMqAro?list=PL6e1vlgGgFvPXt7i1ko6Xv B79V 9dDxl



節電ECOショップHPのダウンロード資料リスト

①HOTガードH-SP商品概要A3パンフ

②HOTガードH-SP商品パンフA4

③3,900円3年償却プラン提案書A4横

④施工実績A4縦

⑤性能検証方法マニュアルA3パンフ

⑥技術資料A3パンフ

⑦施エマニュアルA4横

⑧施工注意事項マニュアルA3パンフ

⑨温度測定方法マニュアルA3パンフ

⑩省エネ計算マニュアルA4横

①省エネ計算エクセルシート

⑩営業の進め方パンフA3パンフ

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¹²各種MSDS

・HOTガードHyper-SP

•硬化剂

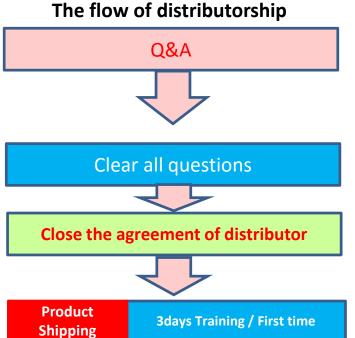
・超親水プライマー

・ガラス油膜取り

•専用剥離剤

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Advice for the thermal barrier business

Learn the 3 years pay back plan / 3,900JPY per 1sqm

Check all SKETCH files and web site

Check all questions and solve the problems

Confirm the details of agreement. Complete the payment

Contact to your freight company and set the Shipping schedule

Date	Item	Time	Place	Co	ntents
Day 1	Product Knowledge	Mornin g	Office (Whole	>Introduction of SKETCH products >Development of the distributorship	>Product description >How to approach the customer
,	Demonstrat ion	Afterno on	1 `	>Demonstration >Temperature measurement	>Application training
Day 2	Application Technique	Mornin g Afterno on	Training Room	>Verification to the applied glass >How to use the solar trans >Train your applicator OR >Apply your customer home	>Energy simulation mission meter
Day 3	Review	Mornin g Afterno on	Office or Meeting	>Seminar for your customers >Q&A >Planning to next project fo	>Issues until the next meeting r more than 100sqm

In the second training, SKETCH requires to prepare the projects of more than 200 square meters. \Rightarrow Sketch will support the project.

- To explain the products and three years payback plan to the customer.
- Demonstration for the project
- Temperature measurement ⇒ Make the temperature comparison data sheet
- Report the Energy-saving calculation and profit simulation

The training / Second time

ECO SHOP super adviser supports your business and projects.



Company Profile

Corporate Name SKETCH CO.,LTD. World NO, 1

President YASUHIRO SHIMADA Nanotechnology binder manufacturer

Established February,1989
Capital 50,000,000JPY

Address 3F Chaco Paper Kaikan 2-25-10 ASAKUSABASHI TAITO-KU TOKYO JAPAN 111-0053

TEL 03-5825-6503 FAX 03-5825-6504

URL http://www.sketch.co.jp/index.html http://www.sketch—english.com

MAIN BANKS Mizuho Bank. ASAKUSABASHI Branch

Mitsubishi Tokyo UFJ Bank. ASAKUSABASHI Branch.

BUSINESS OPERATIONS Nanotechnology inorganic binder manufacturer. To glass, resin, stainless steel, exterior materials, concrete, and tile, etc., all the base material can be applied the transparent and room temperature curing coating.

1) Thermal Barrier Coating for the glass

3 to 4 years payback plan/ 3,900JPY per 1sqm

2) Anti-static, Anti-fouling, Super hydrophilic coating

World No.1 / Only 1 Product

3) Visible light response photo catalyst, deodorant coating

VOC and air cleaning measures, industry No1 goods

MAIN CLIENTS ECO BUSINESS CLUB CO., LTD (100 Co. Members) 20 OEM User Co.'s

Overseas 20 countries and China, Hong Kong, South Korea, Canada, the United States, Taiwan, the Philippines, New Zealand, Indonesia, Malaysia, Thailand, Singapore, Vietnam, India, Dubai, Qatar, Azerbaijan, Italy, Poland, Nepal, Switzerland

R & D COOPERATION CLIENTS Kyoto university, Mitsubishi Material Group. Teika Co. LTD. Taki Chemical Industries Co., LTD.

JGC Catalysts and Chemical Ltd. Tanakakikinnzoku Group.Co., LTD Toyota Central R & D Labs, Toshiba Corporation,

Dainichiseika Color & Chemicals Mfg. Co., LTD Korean Nano material companies

Affiliates companies Business Club Headquarters Co., Ltd., ECO SETSUDEN Shop Co., Ltd. Japan Nano Coat CO., LTD.