


NEW

**High Performance
Solar Heat Shielding Window Coating
“Smart Coat”**



**“Smart Coat” contributes for
anti-global warming**

Approved and recommended as for environmental business model
by Japanese Ministry of Environment

sit S.I.Tech Co., Ltd.

Characteristic of "Smart Coat"

Clarity and high heat shielding

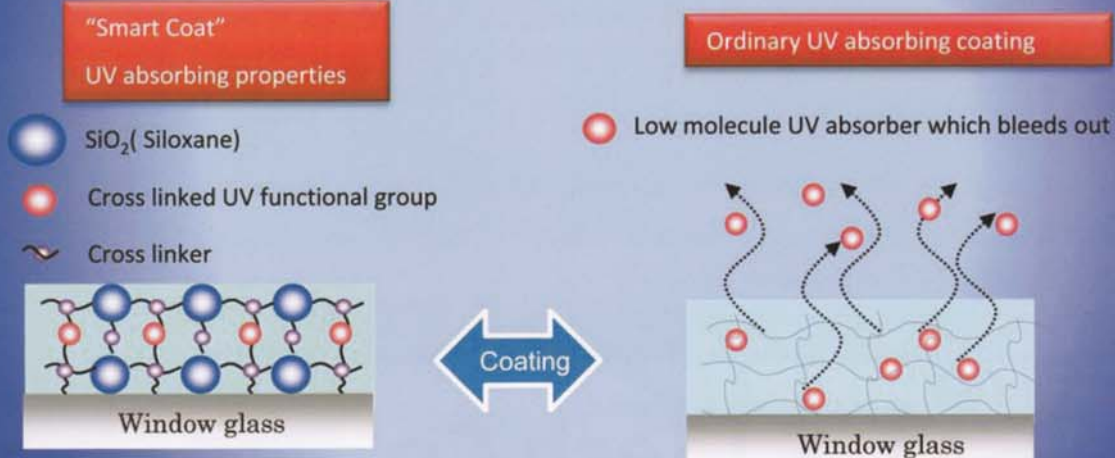
- Ordinary high heat shielding window film is dark due to low transmission of visible light, "Smart Coat" achieved high heat shielding properties which the shading co-efficiency is 0.58 having together with visible light transmission of 64 %.

No light pollution

- Reflective type high heat shielding window film occurs mirror phenomena which affect vision through window at night unlike "Smart Coat" keeps clear vision at night.

Durability

- "Smart Coat" has excellent durability last more than 10 years with special polymer technology.



“Smart Coat”’s Energy Saving Rate

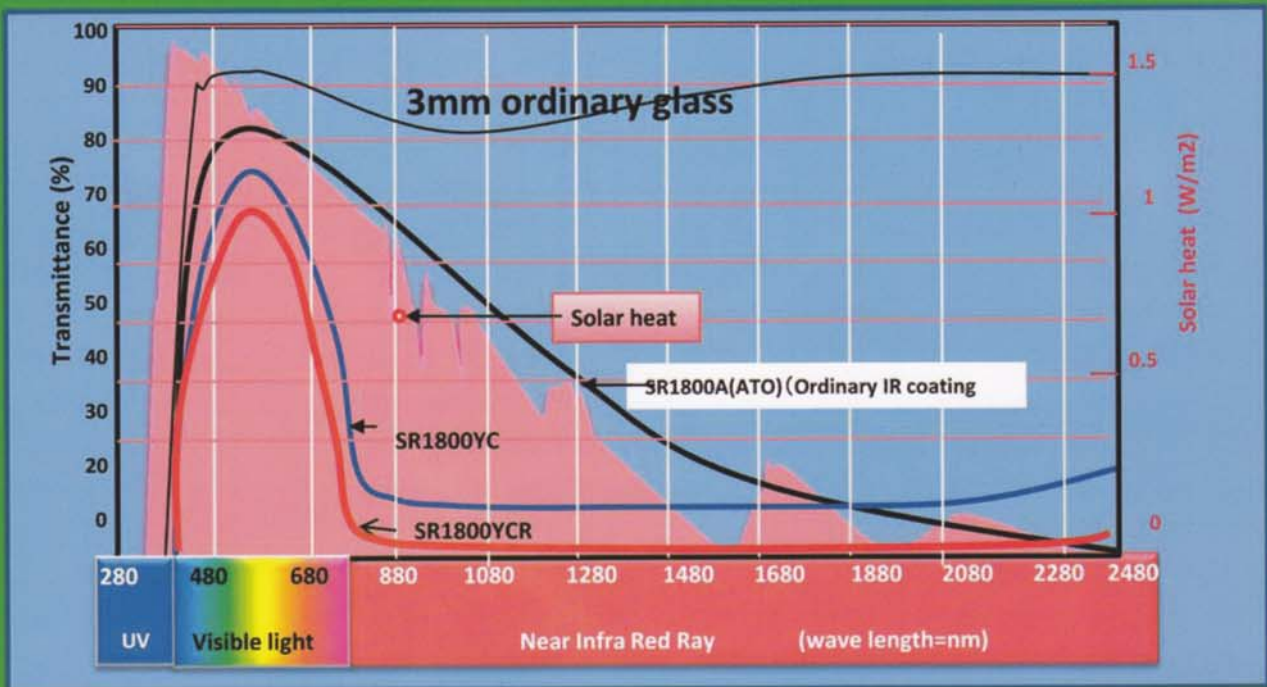
Window Area Energy Saving Rate = 41 %

3mm Transparent Glass
Clarity (visible light transmission(90%))

3mm Transparent Glass + “Smart Coat”
SR1800YCR
Clarity (visible light transmission(64%))



“Smart Coat” transmission profile and solar heat profile



	Visible light (%)	Solar energy (%)	Shading co-efficiency	UV(%)
3mm Glass	90	86	1.0	71.4
SR1800A	80	67	0.79	1.5
SR1800YC	70	38	0.66	0.7
SR1800YCR	64	31	0.58	0.6

Application Procedure

*Please see application manual separately issued.

Preparation

Apply masking tape around window glass to avoid staining window frame.
Prepare sheet on floor underneath of window area.



Surface preparation

Polish glass surface using abrasion agent with water and polisher (air driven or electric driven like for polishing car body)



Apply coating

Apply and supply coating liquid entirely window glass primarily, then level the coating with roller to uniform evenly.



Drying time

Finger touch dry: 30 minutes Hard dry: 24 hours Complete dry: over 10 days

Physical Properties of "Smart Coat"

Test item	Test method	Result
Pencil hardness	JIS K5400	4H+
Abrasion resistance	Taber abrasion wheel CS-17 x 200rpm	△haze 0.6%
Adhesion	1mm width x 100 cross cut, scotch taped	100/100
Anti-water	Dipped in tub water x30 days	No change
Anti-chemical	5% H ₂ SO ₄ , HNO ₃ dropped x24 hours	No change
Anti-solvent	MEK rubbing x200 times	No change
Anti-thermal cycle	-15°C~60°C x 100 cycles	No change
Accelerated weathering	Super UV tester x300 hours (exposed through glass)	△E=0.8

Product container of "Smart Coat"

United Nation approved steel tin and drum, Net weight 1kg or 18 kg

Distributor

Manufacturer

ELLIOTT HAINES
DIRECTOR

SMART COAT

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