

Superior Sun-Shielding Coating SS190W

This sun-shielding coating with superior sunlight reflective pigments reaches up to 90% TSR. Only 100um thickness can efficiently block heat outside buildings to avoid heat retainess and acheive buildings cooling. Innovative waterborne polymer composite is selected as main resin which shows high weatherability and UV resistance to prevent coating aging. With high elasticity and streching ability, it is especially suitable for areas with frequest earthquakes.

- Environmentally friendly waterborne
- TSR : 90%
- SRI : 118
- Thin layer easy to apply : 50um x 2
- Air-conditioning usage reduction
- Energy and carbon foorprint saving
- Acid/alkali resistance and waterproof
- Can be applied to metal/cement



● Building Materials Application

Substrate	Primer	Topcoat SS190W*
Metal roofing sheet		50um x 2
Cement / Concrete	SS1900P	50um x 2
Fiber cement board (FCB)		50um x 2

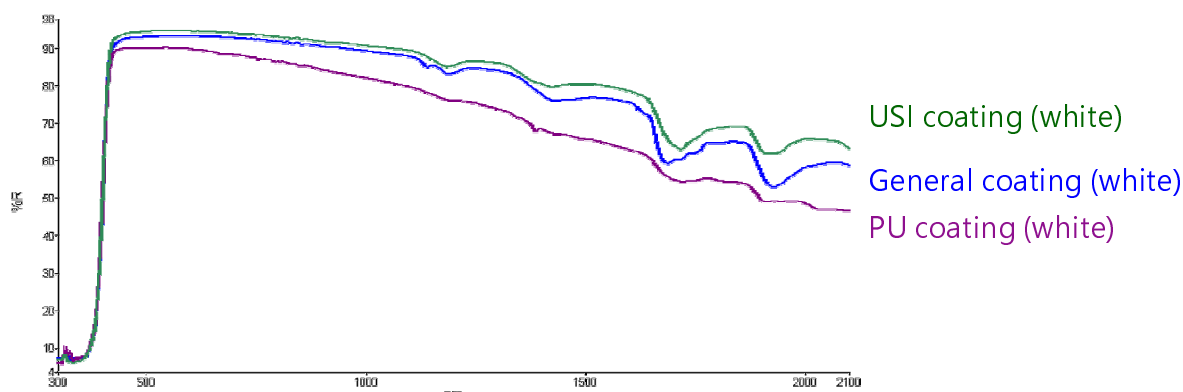
*If the buildings are located in a harsh environment, SS1900T can be applied as a dust-resistance topcoat to extend lifetime of SS190W heat reflectance ability lifetime.

● Product Specification

Item	Test method	Specification
Total solar reflectance (%)	JIS R3106	90
Total solar reflectance(%) after QUV 1,000hrs	JIS R3106	90
Weatherability	ASTM G154-16	No cracking No peeling No discoloration
Acid resistance	CNS 4447	
Alkali resistance	CNS 4447	
Salt water resistance	CNS 10757	No abnormality

● Is White Good Enough? Let Us Analyze It

How to choose a good one from many white paints? TSR is the key indicator which must be paid attention to. Below the TSR diagram tells everything: USI coating vs. General coating vs. PU coating.



	R(%) 300-400 nm	R(%) 400-800 nm	R(%) 800-2100 nm	TSR(%)
USI coating	12.31	93.44	80.07	90.80
General coating	12.29	91.54	76.40	86.68
PU coating	12.43	88.20	67.81	81.07

● Color Options and Customized Color

Though white is the most efficient heat-reflective color. USI also provide several paints in common colors, such as grey, yellow, and black. • Total solar reflectance is an important indicator when selecting propriate heat-reflective coating. Higher TSR number, lower heat absorption.



	SS190W-White	SS190G-Grey	SS190Y-Yellow	SS210B-Black
USI coating TSR(%)	90	72	86	43
General coating TSR(%)	86	39	80	4
$\Delta T(^{\circ}\text{C})^*$	2	13	4	24

*Surface temperature difference between USI coatings and other commercial coatings when the light is 30 cm away and keeping illuminating 30 minutes.

● Contact Us

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