SKK

Water-based,
Special Thermal Insulation Coating
External Wall and Roof

COOL TIGHT LIGHT W

(032-020)
Environmentally Friendly
Low VOC Paint

Water-based, special thermal insulation coating for external wall and roof

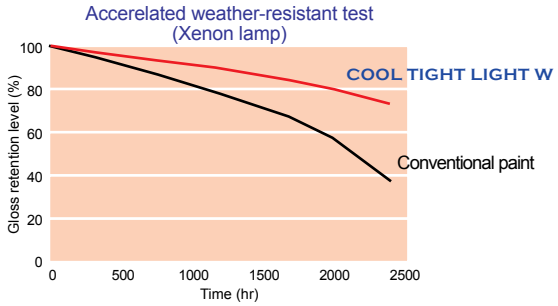
COOL TIGHT LIGHT W

COOL TIGHT LIGHT W, thermal insulation coating, delivers high performance in thermal insulation on exterior wall and roof. It helps improve indoor environment and saves air conditioning costs.

FEATURES

Weather resistance/ High durability

With its high durable resin, it provides excellent weatherproof / high durable performance.



Anti-mildew / Anti- algae

With special specification, it provides high resistance to microorganism such as mildew and algae.

Substrate degradation control

Controlling temperature difference leads to resistance to substrate degradation caused by metal shrinkage and expansion.

Environmentally friendly

VOC content less than 50g/L : Passed

*This product was evaluated by PSB Singapore as qualify product to pass the green label requirement.

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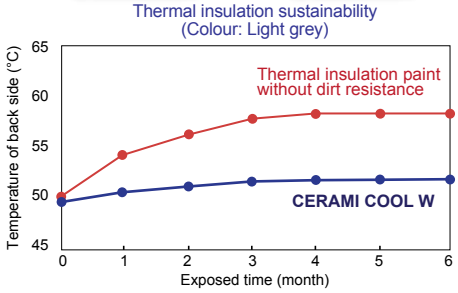
Super dirt & dust resistance

Its dirt resistant property provides not only beautiful surface but also long lasting heat reflective function as dirt and dust cause the decrease of heat reflection effect.



Test method

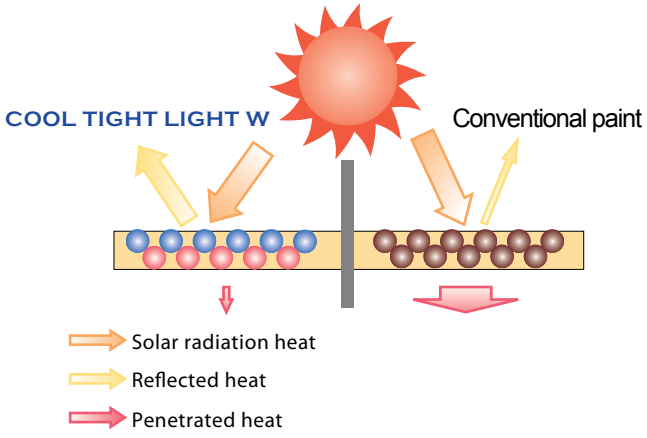
After outdoor exposure, expose a specimen to infrared ray lamp and check the temperature of the back of the specimen.

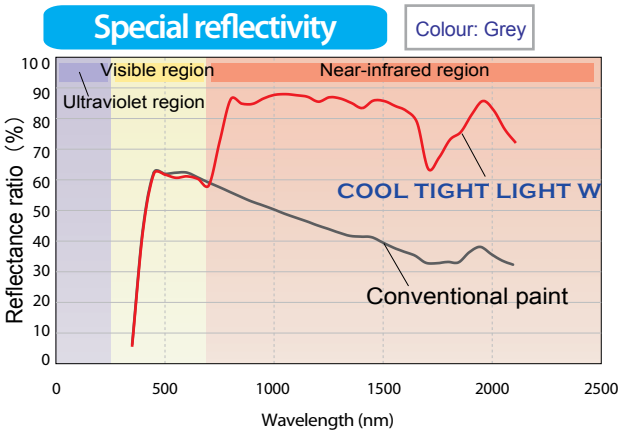
Result

The temperature of the specimen with heat reflective paint without dirt resistant property gradually increases due to dirt accumulation whereas CERAMI COOL W specimen keeps its heat reflection property.

HEAT REFLECTION MECHANISUM

It provides thermal insulation performance by reflecting infrared ray that emit strong radiation to reduce amount of absorption heat and penetration heat.





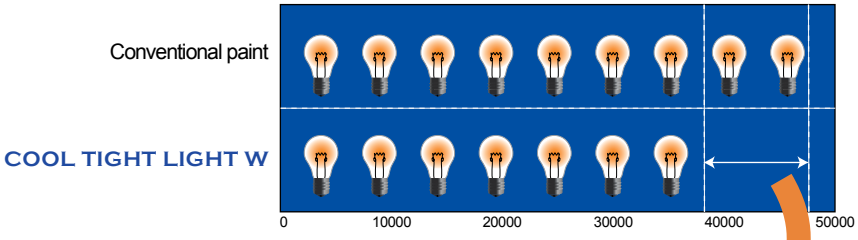
HEAT REFLECTION PROPERTIES

16% per annum of electric power will be saved

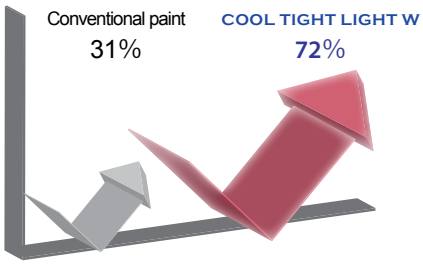
Energy saving effect of thermal insulation

Wall substrate: Concrete (thickness=150mm)
K-Value: 4.2W/ m^2 *K
Colour: Grey
Room temperature: 25°C
Application area: 1000m^2

Electric power consumption (Wh/h)



Near Infrared Radiation (NIR) Reflectance (Colour: Grey)



519 poplars per annum !

Convert to difference in cooling load (Wh) to Amount of CO_2 discharge, and convert this to trees of poplar.*

Power consumption per hour has been measured on conditions that room temperature was kept at 25˚C, and that the above samples had been applied to external wall (1000m^2). From the result, we can expect that approximately **16%** of electric power will be saved in case of **COOL TIGHT LIGHT W** unlike regular coating.

* Calculation is done under assumption as below;
- The amount of discharge of CO_2: 0.555kg-CO_2/ kWh
- Working time of air conditioner: 15 hrs/day × 30 days/month × 12 months/year = 5,400 hrs/year
- Amount of CO_2 that poplar of 10m tall would absorb per year: 52kg-CO_2

USES

Cold storage warehouses, refrigerated storages, shipping storages, food-processing plants, buildings, schools, gym houses, rearing facilities, etc.

SUITABLE SUBSTRATES

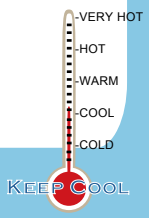
Roof — Cement rendering, concrete, various type boards, repainting of old films

Exterior wall — Cement tile, thin tile, metal roof, slate roof

PACKING

COOL TIGHT LIGHT W (30% Gloss)	16	kg / can
SK WHITE SEALER W	18	kg / can
LENALUCK	26	kg / can
*MIRAC #100 PRIMER Base	16	kg / can
*MIRAC #100 PRIMER Hardener	4	kg / can
*MIRAC BOSEI Base	16	kg / can
*MIRAC BOSEI Hardener	4	kg / can
*EH THINNER	16	ltr / can

(Products indicated by * requires careful handling.)



STANDARD APPLICATION SPECIFICATION

Exterior Wall Flat (smooth) finish

(20℃、65%RH)

Process		Material	Dilution ratio (wt. %)	Consumption (kg/m²)	No. of coat	Interval (hrs) In process	Interval (hrs) In Processes	Interval (hrs) Final curing	Remarks
Surface treatment		●Dry the surface thoroughly to bring water content to a maximum of 10% and pH to 10 or less. ●Completely remove any dirt, dust, and make good of unevenness, irregularities and scratches.							—
1	Undercoat	SK WHTIE SEALER W	100	0.12-0.15	1	-	2 or more	-	Roller, brush, spray gun
		WATER	0 - 15	-					
2	Top coat	COOL TIGHT LIGHT W	100	0.28-0.32	2	2 or more	-	24 or more	Roller, brush, spray gun
		WATER	0 - 20	-					

Exterior Wall Spattered spray texture finish / Pressed finish

(20℃、65%RH)

Process		Material	Dilution ratio(wt.%)	Consumption	No. of coat	Interval (hrs) In process	Interval (hrs) In processes	Interval (hrs) Final curing	Remarks
Surface treatment		●Dry the surface thoroughly to bring water content to a maximum of 10% and pH to 10 or less. ●Completely remove any dirt, dust, and make good of unevenness, irregularities and scratches.							—
1	Undercoat	SK WHITE SEALER W	100	0.12-0.15	1	-	2 or more	-	Roller, brush, spray gun
		WATER	0 - 15	-					
2	Main coat	LENALUCK	100	1.3-1.7	1-2	2 or more	Spray: 24 or more Pressing: 0.5 or more	-	Tile gu nozzle tip: 6.5-10mm Pressure: 392-588kPa (4-6kgf/cm²)
		WATER	0 - 5	-					
3	Pressing	Press the texture with a plastic roller dipped in PAINT THINNER A.				-	24 or more	-	
4	Top coat	COOL TIGHT LIGHT W	100	0.28-0.32	2	2 or more	-	24 or more	Roller, brush, spray gun
		WATER	0 - 20	-					

Roof (1) (For cement tile, thin tile, slate roof)

(20℃、65%RH)

Process		Material	Dilution ratio(wt.%)	Consumption	No.of coat	Interval (hrs) In process	Interval (hrs) In processes	Interval (hrs) Final curing	Remarks
Surface treatment*		●Dry the surface thoroughly to bring water content to a maximum of 10% and pH to 10 or less. ●Completely remove any dirt, dust, and make good of unevenness, irregularities and scratches.							—
1	Undercoat**	MIRAC #100 PRIMER Base	100	0.14-0.17	1	-	6 hrs. to 14 days	-	Roller, brush, spray gun
		MIRAC #100 PRIMER Hardener	25						
		EH THINNER	0 - 30	-					
2	Top coat	COOL TIGHT LIGHT W	100	0.28-0.32	2	2 or more	-	24 or more	Roller, brush, spray gun
		WATER	0 - 20	-					
Edge cutting		Cut edges of tiles, especially around underthroating, bonded by the materials.							

Roof (2) (For metal roof, corrugated iron roof)

(20℃、65%RH)

Process		Material	Dilution ratio(wt.%)	Consumption	No.of coat	Interval (hrs) In process	Interval (hrs) In processes	Interval (hrs) Final curing	Remarks
Surface treatment*		●Remove dirt, moss and debonding film, etc. with high-pressure jet washer (10-15MPa). ●In case high-pressure jet washer is not available, remove dirt, moss and debonding film, etc. from the surface with scrub brush watering out of hose. ●Remove rust completely if rust occurs partly.							—
1	Undercoat**	MIRAC BOSEI Base	100	0.14-0.17	1	-	6 hrs. to 14 days	-	Roller, brush, spray gun
		MIRAC BOSEI Hardener	25						
		EH THINNER	0 - 30	-					
2	Top coat	COOL TIGHT LIGHT W	100	0.28-0.32	2	2 or more	-	24 or more	Roller, brush, spray gun
		WATER	0 - 20	-					

*Be sure to clean carefully the area where upper and lower roof tiles overlap with wire brush. Insufficient cleaning may result in finish without gloss and cause blister and peel-off in the future.
**Consumption varies depending on the condition of deterioration.