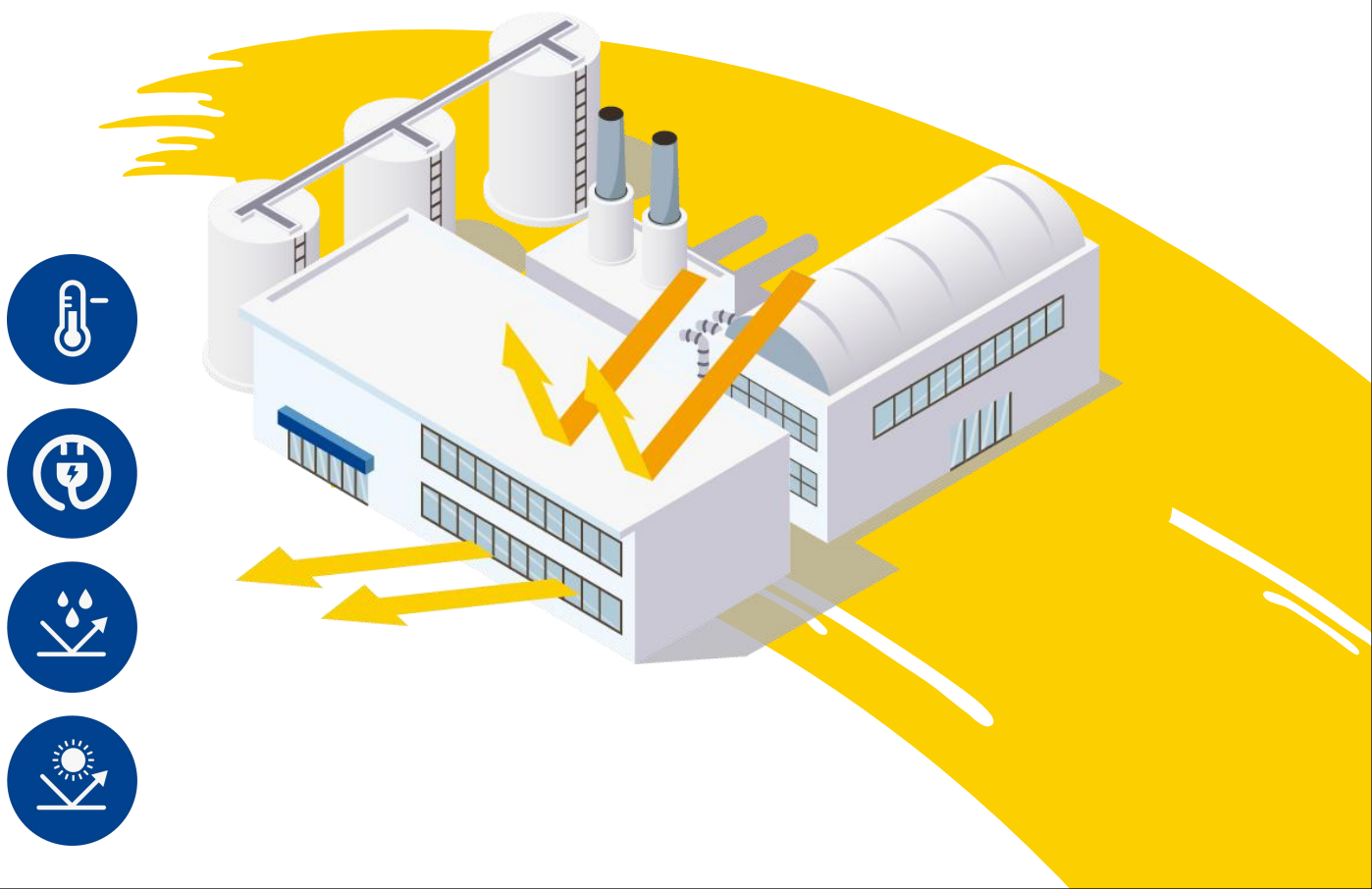




USI Corporation
台灣聚合化學品股份有限公司

全效型隔熱塗裝

Superior Sun-Shielding Coating



隔熱塗料優異性能

Sun-Shielding Coating with Excellent Performance

- 環保水性塗料
Eco-friendly waterborne coating
- 全陽光反射率90%
Total solar reflection 90%
- 低熱島效應
Less heat island effect
- 薄塗層：50um x 2
Thin coating layer：50um x 2
- 降低室內溫度
Reduce indoor temperature
- 減少冷氣使用
Less airconditioning
- 節省能源與碳足跡
Less energy consumption and carbon footprint

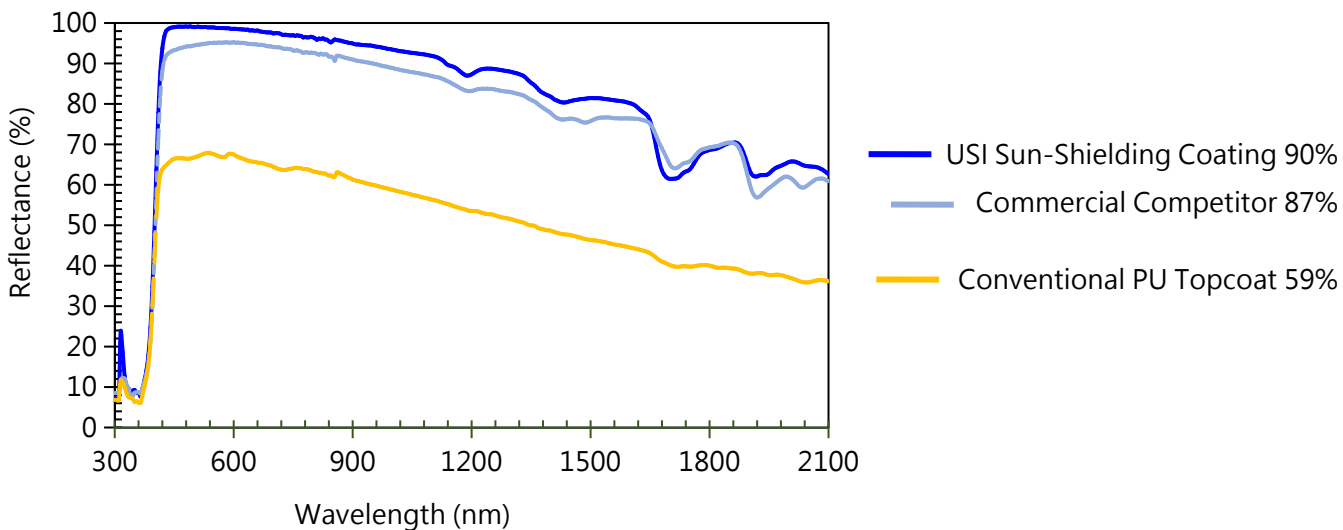


全陽光反射率 90%

Total Solar Reflectance 90%

隔熱塗料不僅僅是白色就好，全陽光反射率才是必須重視的隔熱指標。下面的陽光反射圖譜有最好的說明：台聚隔熱塗料(白) vs. 市售競爭品(白) vs. 市售聚氨酯面漆(白)。

Having a white coating is not all there is to sun-shielding. In fact, TSR is the crucial index that must be taken seriously. Below is the TSR spectrum which demonstrates the outstanding performance of USI coating comparing with other commercially available white coatings:



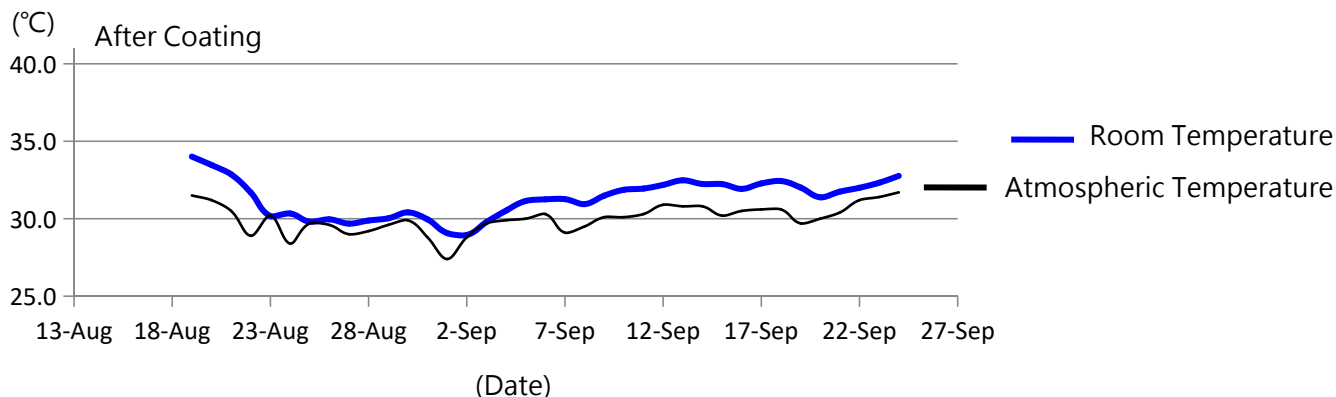
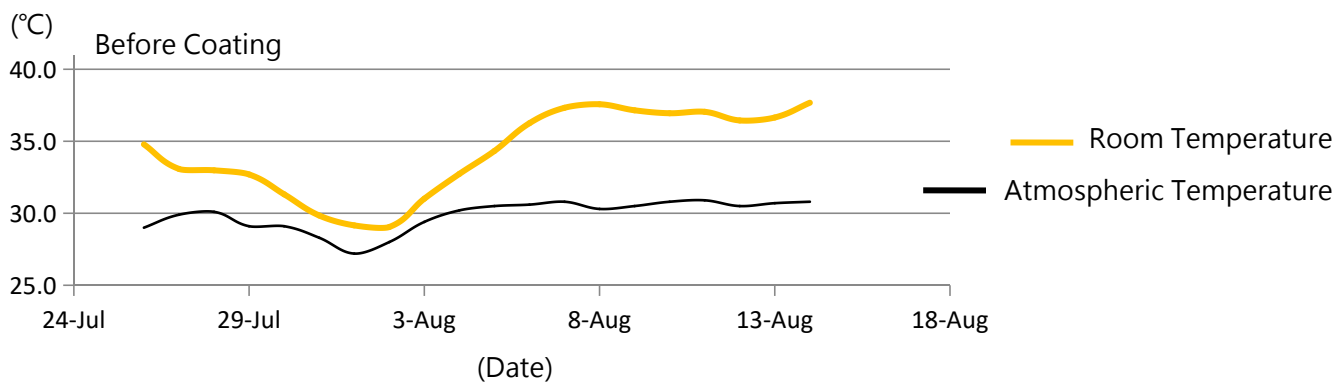
表面溫度顯著下降 Significant Drop of Surface Temperature

Case 1 Warehouse Roof Steel		Case 2 Building Roof Concrete		Case 3 Building Roof Concrete	
Before	After	Before	After	Before	After
54.3°C	31.6°C	54.1°C	28.6°C	57.8°C	32.0°C
22.7°C ↓		25.5°C ↓		25.8°C ↓	

建築物受熱大幅減少 Significant Reduction in Indoor Heating

施作隔熱塗裝可直接有效阻擋熱能進入建築物，減少冷氣使用次數，達到節能減碳的目的。同時，因為建築物受熱大幅減少，其溫度可以趨近於大氣溫度，不會有室內與室外溫差很大的情況，人員進出也較為舒適。下面是一辦公室例子，記錄塗裝前後室內與大氣溫度的差異。

Applying sun-shielding coating can prevent conduction of thermal energy into the buildings, resulting in reduced need of airconditioning and achieving purpose of energy saving and carbon reduction. Meanwhile, due to significant reduction indoor heating, there will be no large temperature difference between indoor and outdoor. People are more comfortable when entering or exiting the buildings. The following is an example of an office, recording the difference between indoor and atmospheric temperatures before and after coating.





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