



全效型隔熱塗裝

Superior Sun-Shielding Coating



USI Corporation
台灣聚合化學品股份有限公司

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%
- 薄塗層：50um x 2
Thin coating layer : 50um x 2
- 降低槽內溫度
Reduce temperature in tanks
- 減少灑水頻率
Less water spray for cooling
- 降低VOC逸散
Lower VOC emission
- 節省能源與碳足跡
Less energy consumption
and carbon footprint

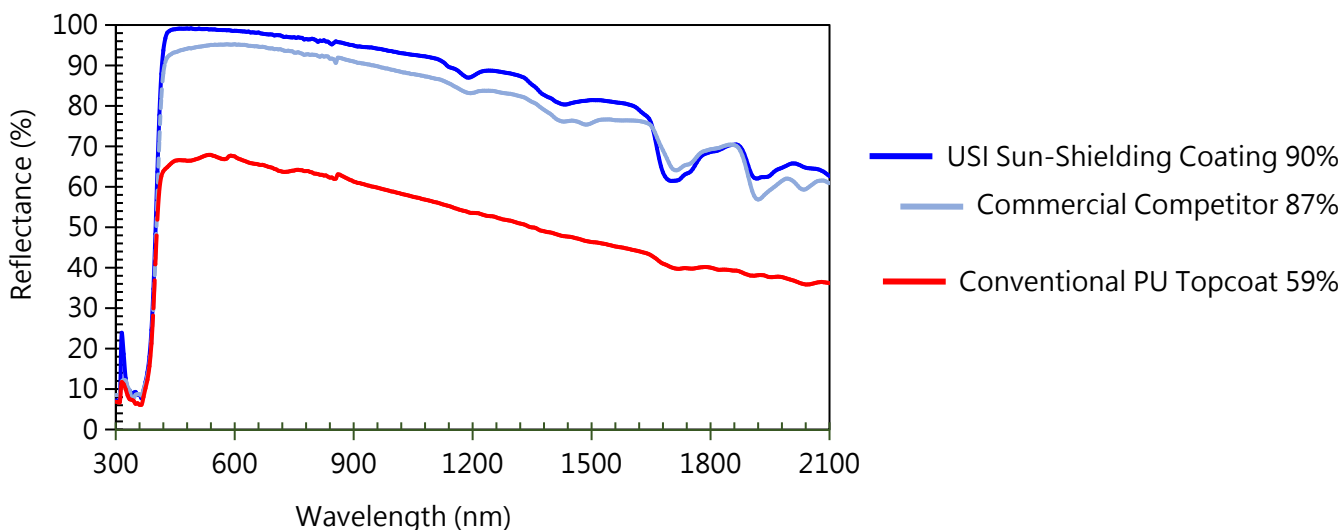


全陽光反射率 90%

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:



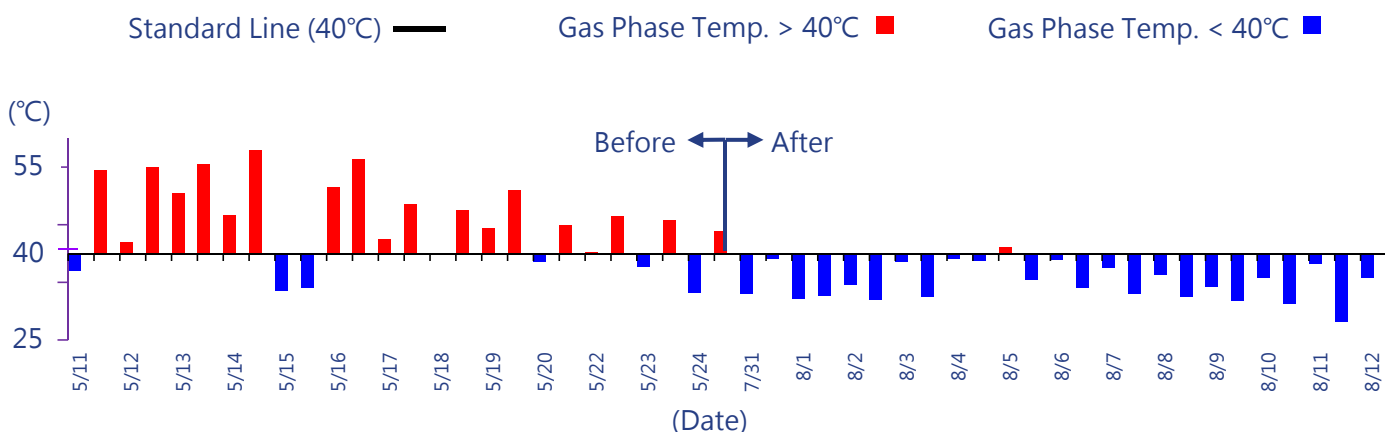
表面溫度顯著下降 Significant Drop of Surface Temperature

Case 1 EDC Tank		Case 2 EDC Tank		Case 3 BD Tank	
Before	After	Before	After	Before	After
64.0°C	36.2°C	56.6°C	41.2°C	55.4°C	37.2°C
27.8°C ↓		15.4°C ↓		18.2°C ↓	

大幅減少灑水頻率 Significant Less Water Spray for Cooling

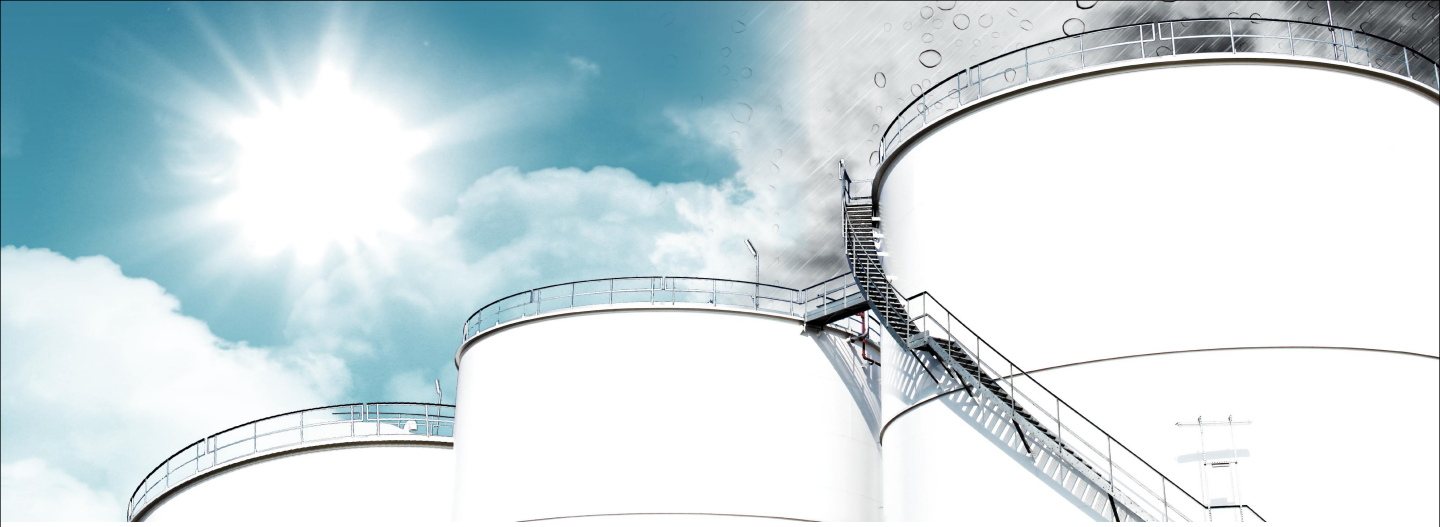
施作隔熱塗裝可直接有效阻擋熱能進入儲槽，減少灑水降溫頻率，維持儲槽內化學品的品質與安定性。下面是BD儲槽記錄氣象區溫度的例子，施作後氣象區溫度多數低於灑水標準(40°C)。

Applying sun-shielding coating on a tank can prevent conduction of thermal energy into the tank, resulting in reduced needs of water spray for cooling and keep the quality and stability of chemicals in the tank. The following example is the change of gas phase temperature of a BD tank: after applying sun-shielding coating, the gas phase temperature is lower than the standard (40°C) that needs water spray cooling in most of the time.



	Before Coating	After Coating
Record Period	11 th May - 24 th May	31 st Jul. - 12 th Aug.
Ave. Atmospheric Temp.	33.7°C	31.1°C
Ave. Gas Phase Temp.	45.4°C	35.0°C

10.4°C ↓



聯繫我們

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