

Superior Sun-Shielding Coating



USI Corporation
台灣聚合化學品股份有限公司

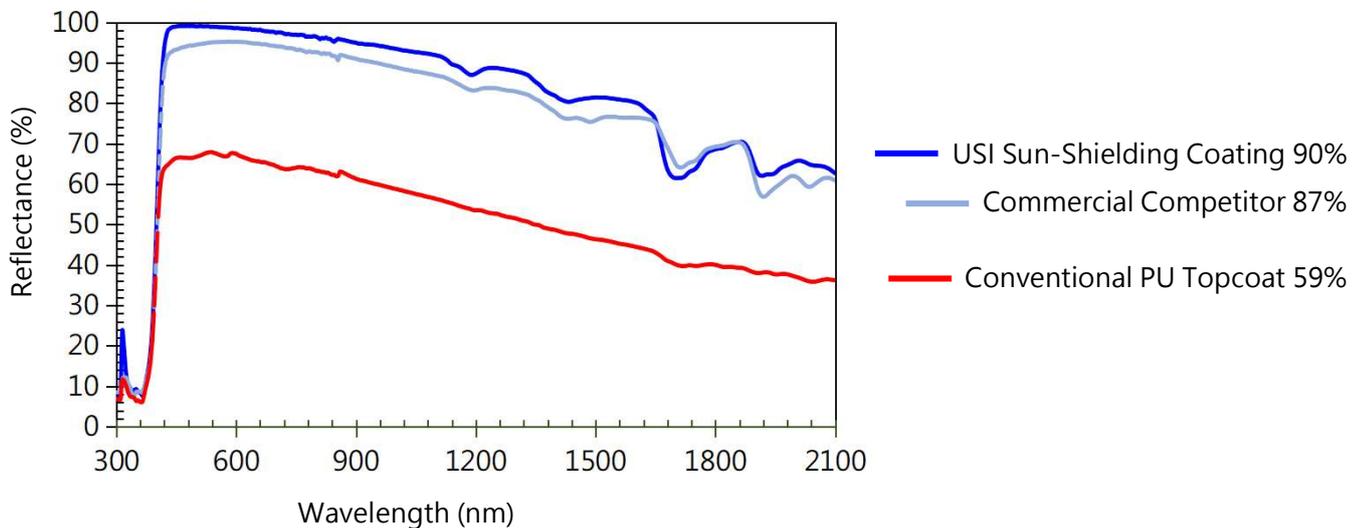
Sun-Shielding Coating with Excellent Performance

- Eco-friendly waterborne coating
- Total solar reflection 90%
- Thin coating layer : 50um x 2
- Reduce temperature in tanks
- Less water spray for cooling
- Lower VOC emission
- Less energy consumption and carbon footprint



Total Solar Reflectance 90%

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:

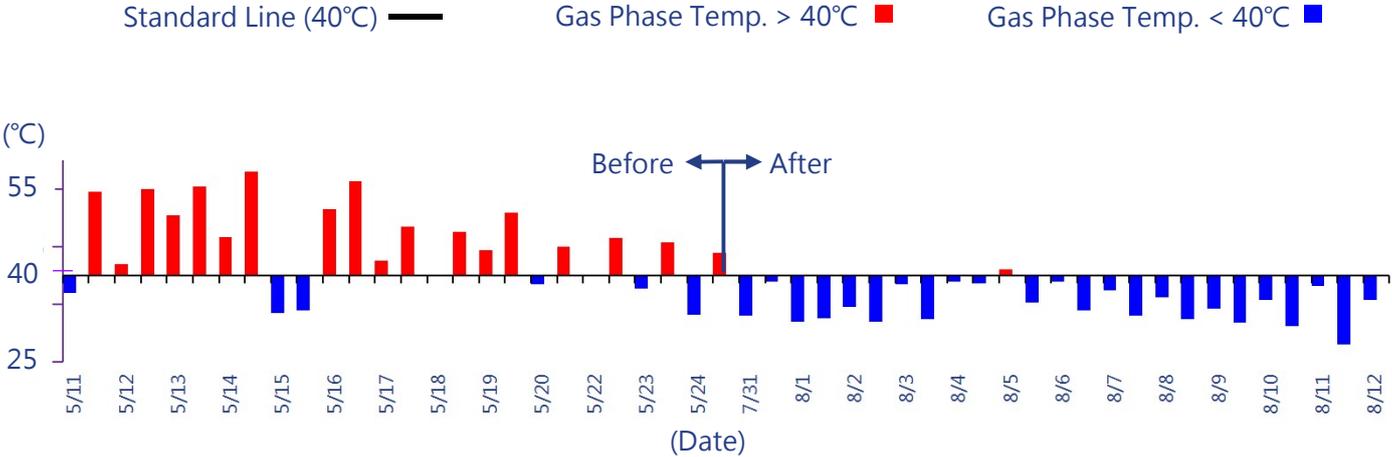


Significant Drop of Surface Temperature

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 ↓	

Significant Less Water Spray for Cooling

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 ↓



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