



Superior Sun-Shielding PU Coating SS220W

This is a two-component polyurethane coating with superior sun reflection ability which block heat energy from entering tanks significantly, benefiting with less VOCs (volatile organic compounds) emissions and better chemical quality in parallel. Due to 90% sun reflection, yellowing (aging) resistance is excellent as a result, suitable for top coating for tanks, pipes, metal roof, and other buildings. Besides, SS220W performs glossy, excellent hiding, excellent stain/dirt resistance, so the coating keeps its origin color and gloss even after exposed to sun several years.



- TSR : 90%
- SRI : 120
- High solid content : >80%
- Low VOCs content : <300g/L

- Excellent weatherability : ASTM G154 pass
- Reduction of storage temperature
- Reduction emission of VOCs
- Water resource and carbon footprint saving

● Low VOCs Content

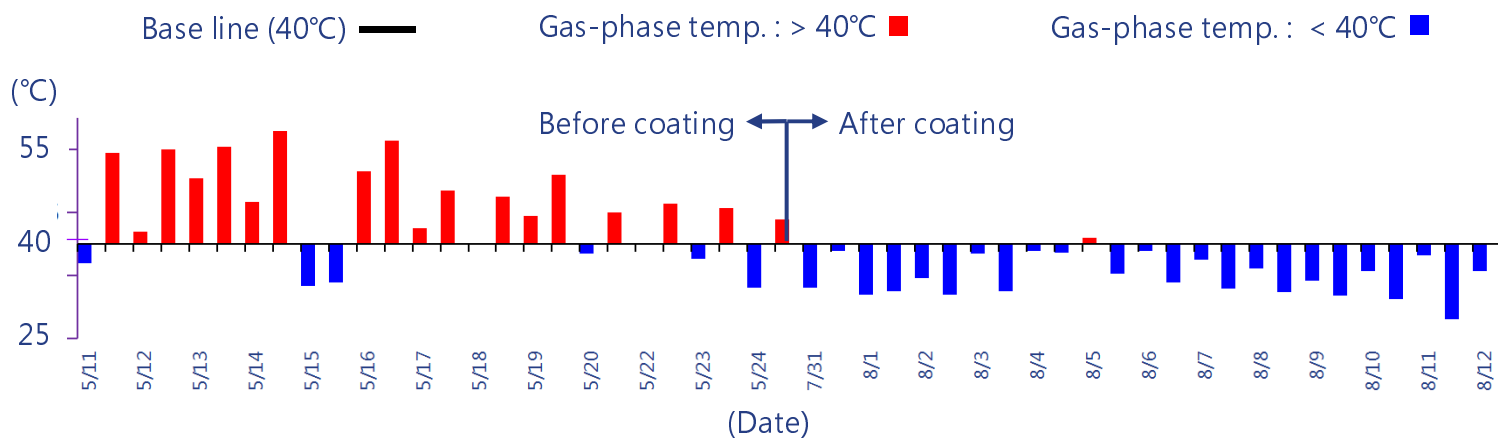
SS220W can be applied with zinc-rich epoxy (AC220Z) and high solid epoxy (AC220M) as one extraordinary anti-corrosion coating package with heat-reflection performance together. This coating system pass ISO 12944 requirements and can be used in extreme harsh environment, like CX level. Regards to awareness of low carbon footprint and pollution, VOCs content of these coatings are designed to be far lower than the worldwide requirement 420g/L, for instance China GB/T 38597-2020.

Coating	Test method	Result	Note
AC220Z-Primer	GB/T 34682	261 g/L	Use directly No need thinner
AC220M-Middle	GB/T 34682	133 g/L	Use directly No need thinner
SS220W-Topcoat	GB/T 34682	296 g/L	Use directly No need thinner



● Frequency of Water Cooling Reduction

Applying sun-shielding PU coating can block heat directly and avoid temperature raising of inside chemicals. More stable storage environment, better quality of chemicals. The following is an example of recording gas-phase temperature of one Butadiene tank in summer time. Before coating, the temperature exceeded 40°C frequently, so water spraying for cooling was needed. After coating SS220W, it was recorded that only once was over 40°C.



	Before coating	After coating*
Time record	11 th May - 24 th May	31 st Jul. – 12 th Aug.
Atmospheric temp. (average)	33.7°C	31.1°C
Gas-phase temp. (average)	45.4°C	35.0°C

*After coating SS220W, gas-phase temperature drops 10.4°C. The tank temperature is significantly down below base line (40°C), which no needs water spray for cooling most of time.

● Applications



● Contact Us

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