

Zero Failures in 1.5 Million Square Feet of Water Tank Lining



5 million gallon potable water storage tanks lined using Madison's Corrocote II PW in Abu Dhabi, UAE.

The challenge was finding a tank lining that could withstand the aggressive conditions created by the combination of the hot desalinated/deionized water stored inside the tanks and the highest temperatures in the desert reaching 60°C/140°F.

Between 1990 and 1993, WED lined 16 water storage tanks - both new and rehabilitated - using Madison's Corrocote II PW, 100% solids poly-

Madison's warranty specified that 20 mils (500 microns) of Corrocote II PW be applied over a near white blast (SSPC10) with a 2.0 mil profile, and that the lining be regularly and thoroughly inspected.

After two years of service, the Umm Al Nar tanks passed their first inspection. Dry film thickness checks and cross hatch adhesion tests were performed on the entire surface. To the engineers' amazement, not one instance of coating failure was found in over 450,000 square feet of lined steel.

One engineer stated "the coating looks as good now as the day it was installed". Another reported "this is simply the best water tank coating I have ever seen".

Before 1990, Abu Dhabi's Water and Electricity Department (WED), the owner operator of the city's two power and desalination plants experienced a number of water tank lining failures. Some systems, despite excellent surface preparation and application practices failed within three years. Consequently, WED decided that any material used to line the water tanks at both the Umm Al Nar and the Minah facilities must come with a long term manufacturer's warranty.

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urethane system. The NSF 61 approved lining was applied to approximately 1,500,000 square feet of steel.

Rigorous examinations of Corrocote II PW in these and the Minah tanks over the past eight years yielded similar results. At this rate, the life expectancy of the lining system is estimated at 30 to 50 years.

To find out more about Corrocote II PW and other tank linings and coatings, call Madison Chemical at 905-878-8863 or e-mail us at sales@madisonchemical.com



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