After years of neglect, one of the wastewater clarifier tanks at a petrochemical plant in Rayong needed serious attention. The concrete substrate and existing liner had been damaged over the years, and at the start of the project had been leaking wastewater for months.

Conventional repair procedure would require cement mortar to be applied, levelling the surface, providing strength and smoothness before applying a protective coating. Cement mortar repair plus the required protective coating with FRP or Epoxy can take up to 3 weeks [20+ days] to complete.

However, with VersaFlex’s FSS 50-DM pure polyurea waterproofing system, there is no need for a cementitious mortar application prior to installing the seamless elastomeric liner. FSS 50-DM bonds well with rough surface profiles such as this, after a high-pressure wash to remove any loose contaminant / debris.

Total rehabilitation time with FSS 50-DM: 3 days.
After the initial preparations were complete, FSS 50-DM was applied at a thickness of between 60 and 80 mils. As shown in the pictures below, it is quickly evident that the coating is monolithic, seamless, and extremely easy to apply.