

INDUSTRIAL CASE STUDY

BUND WALL CONCRETE PROTECTION



SITUATION

Concrete is commonly used material for the construction of secondary containment and banded areas. Concrete is a strong material and very accessible. However, concrete does have its disadvantages when it comes to secondary containment. Unfortunately, concrete is prone to cracking, especially in locations where temperatures fluctuate. Secondary containment areas are built to prevent potential spillages from leaching into the surrounding environment. However, if the structure has cracks, it would not successfully contain chemicals from a spillage. In South Africa, a chemical company acknowledged these issues, so they searched for a durable lining system that would not be affected by chemical spillage and would be resistant to cracking.



SOLUTION

XS-350, a pure polyurea by LINE-X, provides the perfect lining system for secondary containment areas. XS-350 is spray-applied, producing a monolithic membrane, meaning there are no seals or joints that could potentially lead to failure. XS-350 is exceptionally durable and has high elongation properties, which can withstand the concrete's movement without splitting or cracking. This durability, coupled with chemical resistant properties makes LINE-X XS-350 the perfect option for both new and existing areas manufactured for secondary containment. The application process includes cleaning the concrete, repairing existing cracks and corrosion damage, prime with LINE-X EPX concrete primer followed by a 2mm coating of XS-350.



RESULTS

The final LINE-X application provided an environmentally safe environment for the storage of the chemicals. The fast drying time of XS-350 allowed a quick return-to-service compared to other traditional coating methods, allowing the company to minimise their downtime. Companies across the globe utilise XS-350 for their secondary containment storage. LINE-X pure polyurea systems have proved it's longevity over its 25+ years of producing and applying coatings.

PROJECT OVERVIEW: Lining System for Secondary Containment Bund

PRODUCTS USED: LINE-X XS-350, EPX Concrete Primer

APPLICATOR: LINE-X Rustenburg



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