

INDUSTRIAL CASE STUDY

TEMPORARY SECONDARY CONTAINMENT DAM



SITUATION

A well Recognised German Company, serving the petrochemical industry with operations in Mexico, had to establish its congenital water treatment plants and their re-injection to well in different parts of Mexico.

When building a new plant in Mexico, the company producing the plant must provide sustainability of the land and prevent ecological damage.

Congenital water treatment plants and re-injection wells operate for a limited period, and sometimes these periods are not very long. Therefore no civil works or permanent constructions or definitive structures are allowed since once the plant meets its objective, the company must dismantle the plant, and the land will have to return to the same condition as before.

The ground needs to be prepared to receive the installation without causing severe ecological damage.



SOLUTION

Mexican distributor (ETM) utilised LINE-X XS-350 pure polyurea to provide a solution that met the operational and safety needs required, as well as protect the land from ecological damage.

ETM designed a temporary secondary containment dam by constructing a sand foundation, followed by anchoring and fastening a mesh fabric. Once the construction of the foundation was complete, LINE-X applicators applied XS-350 to a thickness of approximately 4mm with a final UV-stable topcoat ensure colour would not fade.

LINE-X XS-350 provided a homogeneous dam in a single piece without joints that may cause leakage. The design and process by ETM allowed the construction of a secondary containment area without the need to use concrete, rod or any other material that affects the terrain.



RESULTS

The process created by ETM and utilisation of LINE-X XS-350 pure polyurea met the two most essential needs of this project.

First. Land protection and ecological damage. With the sand construction and LINE-X surface, the terrain did not suffer any ecological or irreversible damage.

Second. Safe, reliable and cost-effective operating and containment conditions. LINE-X XS-350 provides a chemical resistant, monolithic barrier which protects the land against any chemical spillages. The fast-set time of XS-350 allows for a quick turnaround time compared to traditional construction methods.

This temporary secondary containment project is a further example of the excellent contribution that LINE-X provides in the industrial field.

PROJECT OVERVIEW: Environmentally safe temporary secondary containment

PRODUCTS USED: XS-350, ULTRA

CERTIFICATIONS: MIL-STD-810F - Fungus Resistance, ASTM B117 Salt Spray, ASTM G95 Cathodic Disbondment



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