

INDUSTRIAL CASE STUDY



ROOF GARDEN WATERPROOF MEMBRANE



SITUATION

Roof gardens have been around for generations, helping communal spaces maintain an ever-green presence. Because they are low maintenance and promote a healthier environment, most businesses opt for a fully planted garden consisting of a shallow concrete space filled with fresh soil and live vegetation. Unfortunately, over time, moisture from the soil and watering of the plants can begin to weaken the concrete and, as a result, the concrete can form cracks from damage and age, allowing water to seep through the foundation. For confined surface areas with vegetation and soil, a waterproof solution is an absolute necessity for longevity.



SOLUTION

For long-lasting protection from natural elements, incorporating a polyurea spray-on coating like one from LINE-X can help keep vegetation housed in concrete structures safe and secure by withstanding pooling from rain and heavy irrigation. Highly trained LINE-X applicators begin by sandblasting the inside of the concrete structure to remove any foreign debris. Next, the applicators apply a specially developed two-component epoxy primer which is used for surface-adhesion and to avoid pin-holing. Once the surface is primed, the team adds a specialized castable polyurea called LINE-X CU-970 to the surface to create a watertight membrane. Lastly, a pure polyurea coating, LINE-X XS-310, was applied to reinforce the structure and add another layer of water resistance.



RESULTS

Green spaces, from sprawling parks to intimate roof gardens, promote wellbeing by reducing stress. The introduction of a durable product like LINE-X helps to preserve these spaces for all to enjoy. Incorporating a waterproof solution from LINE-X will yield lower maintenance costs and additional longevity for businesses/properties with roof gardens. This solution provides a long-lasting barrier against natural elements, withstands ponding from rain and irrigation, and delivers these benefits in a quick application process.

PROJECT OVERVIEW: Concrete Waterproof Membrane For Roof Garden

PRODUCTS USED: CU-970, XS-310

SOURCE: LINE-X Mexico/Mega Coat



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