

INDUSTRIAL CASE STUDY

PRISON SHOWER ROOMS



SITUATION

After years of consistent use, prison showers built in the 1970s had developed severe leaks.

Multiple retrofit coatings had been trailed and failed. Water was making its way through the tiles, causing drips through the ceiling on the lower floor. The prison needed a long-lasting solution to prevent further damage caused by the consistent leaks.



SOLUTION

LINE-X XS-350, a pure polyurea, provided a durable, water-tight barrier that seals the surface with a thick, elastomeric seamless membrane. As with all coatings, the key to a successful application is the preparation before applying the LINE-X system. The knowledgeable applicators masked the entry point with a heavy plastic sheet and zipper. A Hepa filter added to the plastic sheet to help catch the dust.

The application team thoroughly cleaned the shower rooms to remove the soap scum and grease. The failed coatings and glazing of the tiles were diamond ground, vacuumed, then the application team repaired all missing grout and holes with Sika 1a.

After the surface preparation is complete, the application team masked the areas that were not receiving the coating. The remaining regions were primed with LINE-X EPX primer. Once the primer had



cured, 60 to 80 mils/1.5 to 2mm of LINE-X XS-350 was applied to the surface as smooth as possible. A quick drift coat is applied to provide a fine texture. Finally, the application team roll-applied a top-coat to offer an easy to clean surface. The application team removed all masking, then after 24hrs, the prison maintenance team re-installed hardware, and the showers were ready for use.

RESULTS

With the success of the LINE-X waterproof coating, The prison facility owners gave the LINE-X application team additional contracts to waterproof the shower block for a Juvenal hall and a large homeless shelter.

PROJECT OVERVIEW: Waterproofing prison shower rooms

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



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