Locked up

2018 Annual Conference
September 10 – 12
Polyurea is being used in prisons, jails and mental health facilities nationwide. Polyurea’s properties offer exceptional advantages for abrasion, tensile, impact and elongation for new construction and rehabilitation projects.
In 2004 we introduced polyurea technology to County of Los Angeles Sheriff’s department and LAPD. Our 1st project was shower relining over ceramic tile at LA Men’s Central Jail.
Surface prep included power washing followed by diamond grinding to de-gloss the existing tile. Pull test was performed to insure proper adhesion to the tile substrate after prep.
Our next request/challenge was to make Padded floors with raised platform inside standard cells
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Before and After
Full padded cell rehab
6000 sf Recreation Deck on the roof of Men’s Central Jail, existing roof coating had asbestos fillers requiring full abatement followed by sloping to direct water flow to drains.
Geotextile was used for transition from wall to floor and exterior flashing.
Install 80-Mils Polyurea over epoxy primer

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Finished with 2 coats of Urethane topcoat with sand broadcast
LAPD Detention Center New Construction 60,000 SF Flooring
Inmate detention and booking areas, cells, recreation areas, cafeteria and mechanical chases

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Epoxy Primer and 60-Mils of Polyurea
Finished with 10-Mils of Polyaspartic
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Orange County Sheriff Lacey Jail Showers

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Prep included diamond grinding to deglaze tile after showers were powerwashed, disinfected and plumbing fixtures removed
Coating included 8 mils of Epoxy Primer, 100-mils of Polyurea and 10-mils of Polyaspartic with sand broadcast on 1\textsuperscript{st} coat of floor only finished with 2\textsuperscript{nd} coat@ 8-mils of Polyaspartic
Orange County Sheriff Dept. Musick Jail Inmate Barracks 88,000 sf of Polyurea applied in showers, latrines and bunk areas

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Plywood and concrete received primer followed by 80 mils of Polyurea
Finish coated with 10-Mils of Polyaspartic

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New Construction 2015
Jackson County Adult Detention Center, Mississippi

A modular pre-constructed prison was being built. Each cell was a separate unit, to be lined up and stacked creating 2 level cell block modules. The cells were constructed of 1/8” sheet steel for walls, lid and floors on the upper units. Next unit was installed 4” apart allowing for plumbing, electrical, mechanical chase cavity.

The cells were pre-coated with 60-mils of Polyurea during manufacturing.

It was discovered during assembly that the Polyurea had little or no adhesion where it was installed. The spec called for SP-1 solvent cleaning followed by sandblasting before any coating was applied, none of that occurred. All of the Polyurea was rejected, the coating was R & R after the cells were assembled when facility was 80% completed.
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