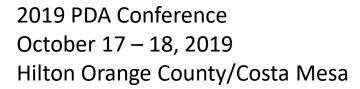
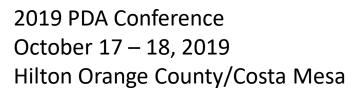
Evolution of Deck Coating systems for Parking Structures using Polyurea





IPW's 13-year history of polyurea and parking structures

Primers, base coat, intermediate coat and topcoats





2006- 70,000 sf City of Cerritos City Hall Generation 1

- Remove existing urethane coatings with Terminators
- Surface grind and shot blast
- Chase cracks and fill with urethane caulk
- Prime 12 mils with 70% solids epoxy
- Install 45 mils traditional 350% elongation aromatic Polyurea
- Install 30 mils slow set hybrid Polyurea and broadcast aggregate
- Finish with 12 mils Aromatic Single Component Urethane Topcoat



Prep







Base coat 45 mils Polyurea





Intermediate Coat-Slow set Polyurea





Topcoat- Aromatic Urethane



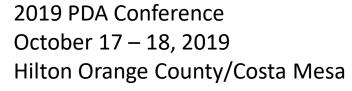




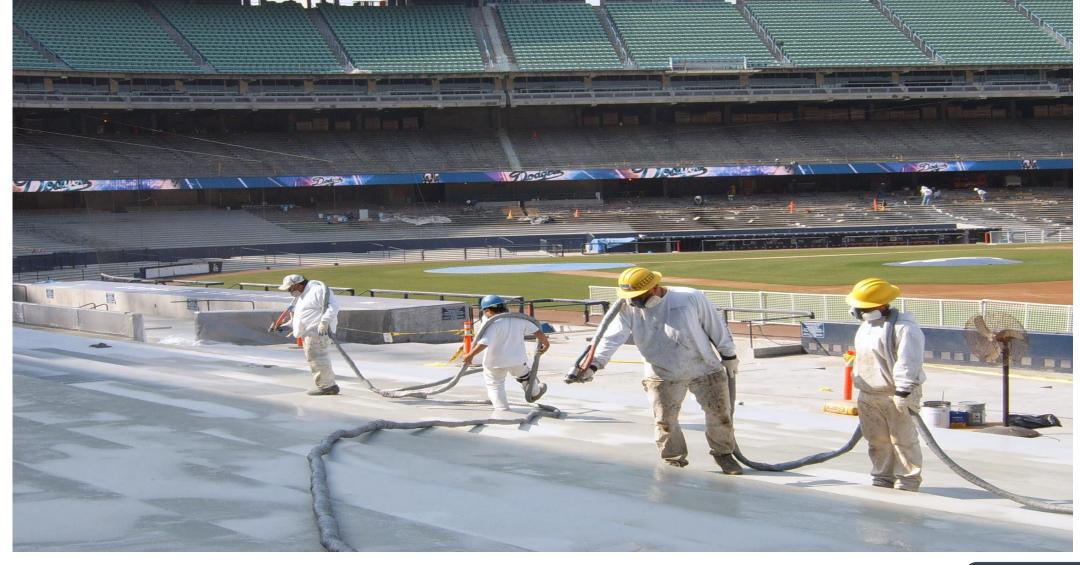
Combining and advancing technologies 2007 – Dodger Stadium Field Level-128,000 Generation 2

- Customer required a fast track solution to allow for waterproofing to be installed in shortest time possible. Polyurea was the solution.
- System developed used 100% solids epoxy primer, fast set Polyurea, slow set polyurea for leveling and to broadcast aggregate for isles, finished with Polyaspartic Topcoat.

 Polyaspartic development was evolving, 2007 version achieved extended working times allow for spray applications





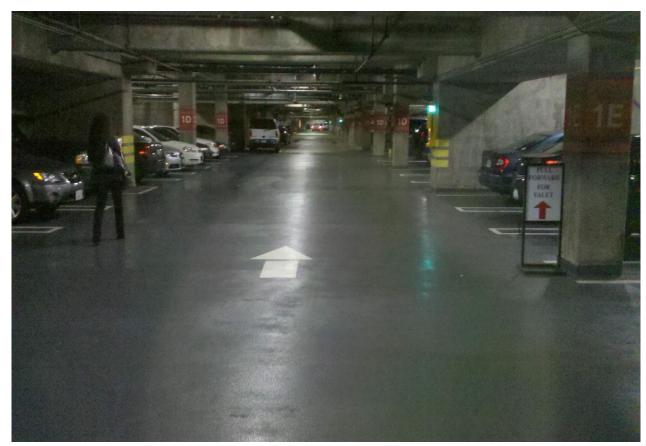


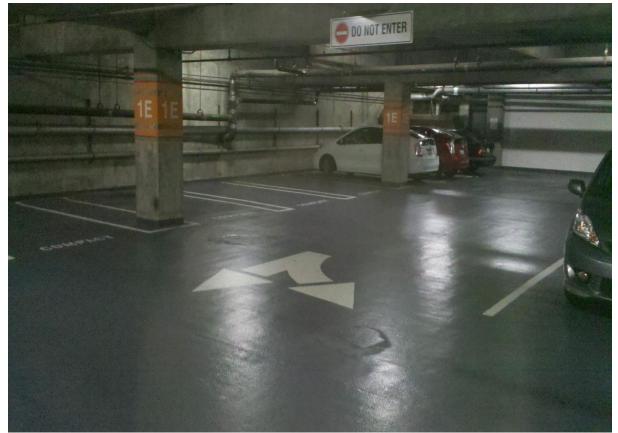


2008-Loyola Marymount College 20,000sf Generation 2

- Underground Parking Structure had classrooms on P-2 level with parking above.
- Deck coating completed when school was in session
- 2 Differences between Gen 1 and 2
 - 100% solids primer vs 80% solids
 - Polyaspartic Topcoat vs Aromatic Urethane







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Lessons Learned

- Gen 1- Slow Set Hybrid Polyurea needs sun to heat and helped with cure.
- Wrong grade of sand increased topcoat consumption 50%



2018 Gen 4-100% solids deck coating systems

- 100% solids Epoxy Primer at 6 mils
- 2nd coat of 100% solids Epoxy Primer at 6 mils with sand broadcasted to near or full refusal.
- 45-60 mils Polyurea
- 20 mils of intermediate wear coat (Urethane) with aggregate to refusal.
- Finish coat 16 mils Polyaspartic Topcoat

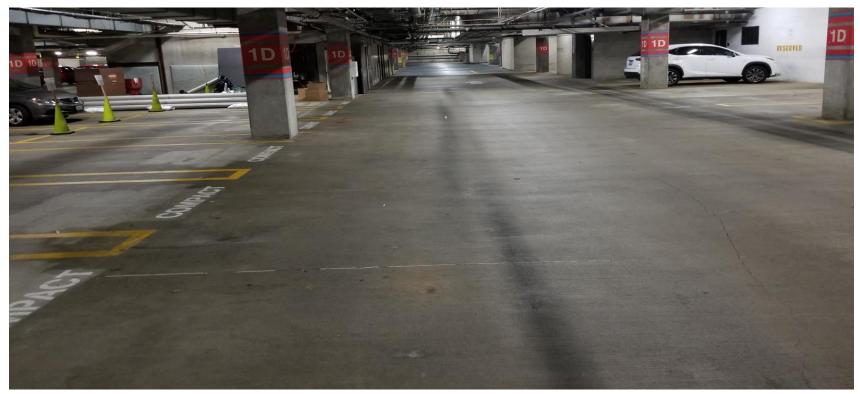


Level P-1 Underground Parking Project Scope

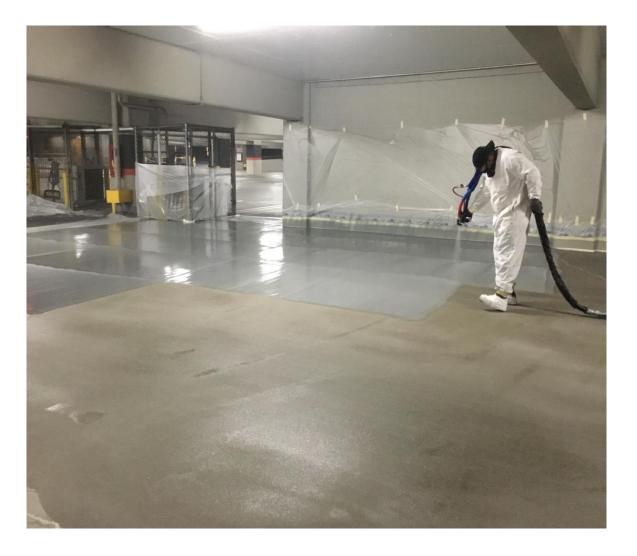
- 1. Grind stripping lines and shot blast
- 2. Chase and repair cracks with Urethane sealant
- 3. Install 100% solids Epoxy primer at 10 mils and broadcast to refusal # 30/40 aggregate
- 4. Install 45 mils of Polyurea
- 5. Install 20 mils wear coat with washed round 2/16 aggregate broadcasted to refusal
- 6. Finish with 16 mils Polyaspartic



Loyola Marymount University December 2018 Phase 2- 21,000 SF



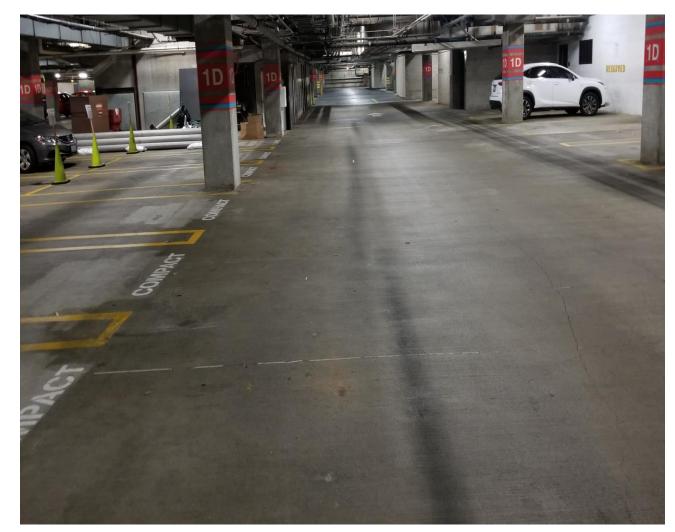


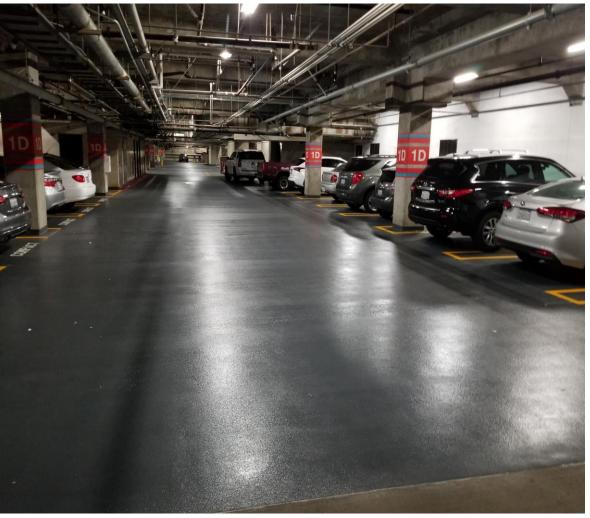




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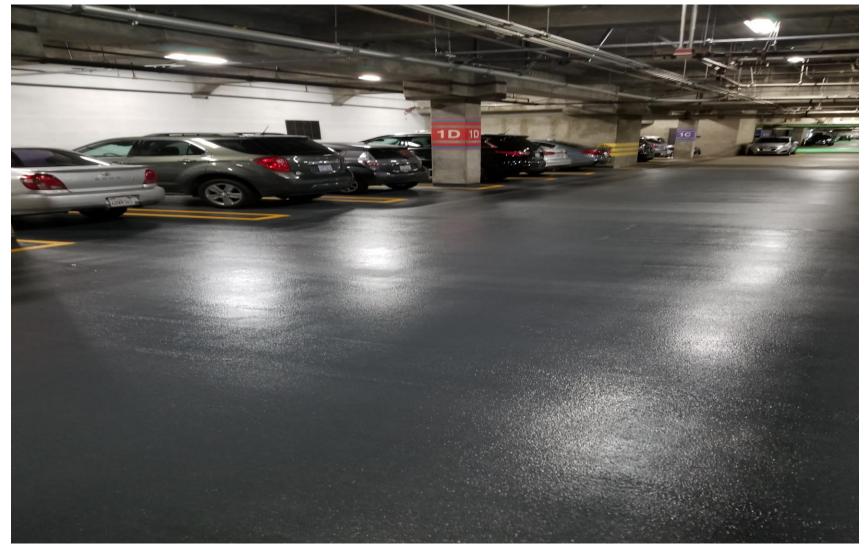




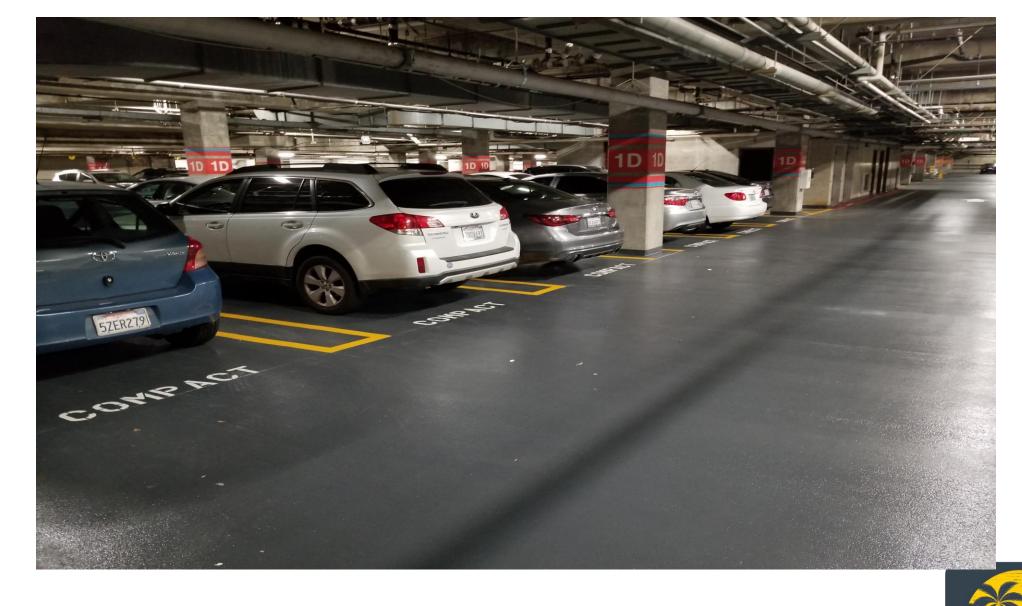


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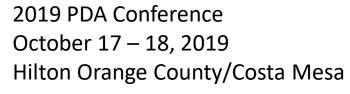




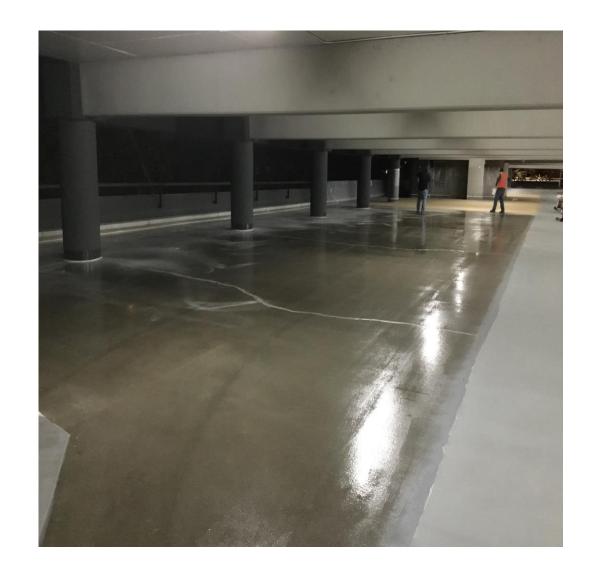
ANNUAL CONFERENCE

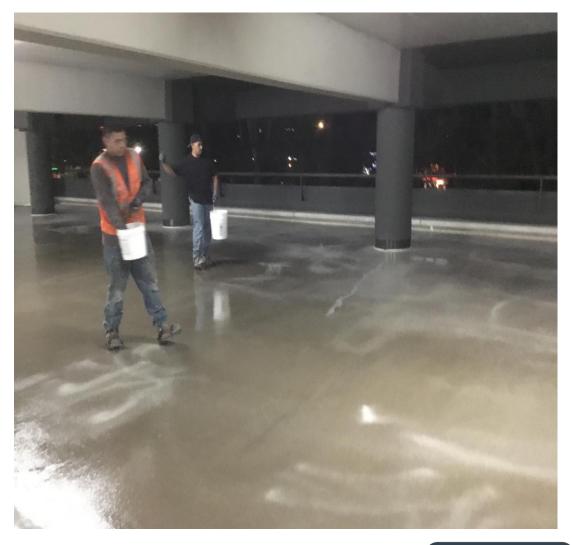
NBC-Universal Hollywood 5th floor parking deck over Production studio

- 24,000 sf parking deck
- Remove parking bumpers, degrease with water extraction
- Grind off parking lines and shot blast
- Chase and repair cracks with Urethane sealant
- Install 100% solids Epoxy primer at 10 mils and broadcast to refusal # 30/40 aggregate
- Install 45 mils of Polyurea
- Install 20 mils wear coat with washed round 2/16 aggregate broadcasted to refusal
- Finish with 16 mils Polyaspartic



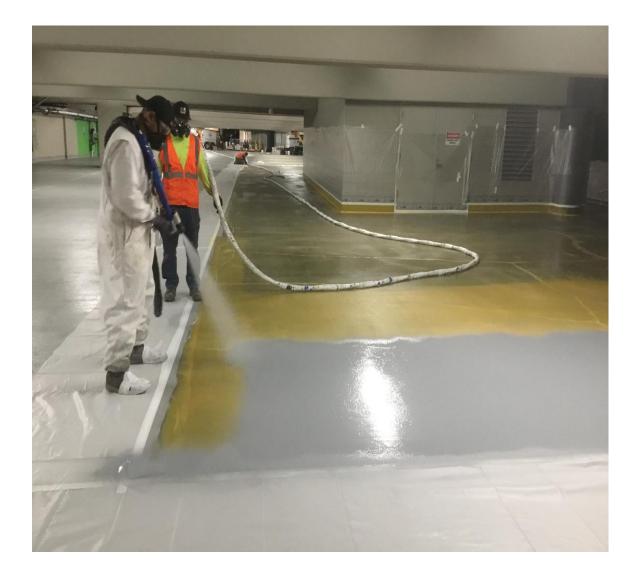


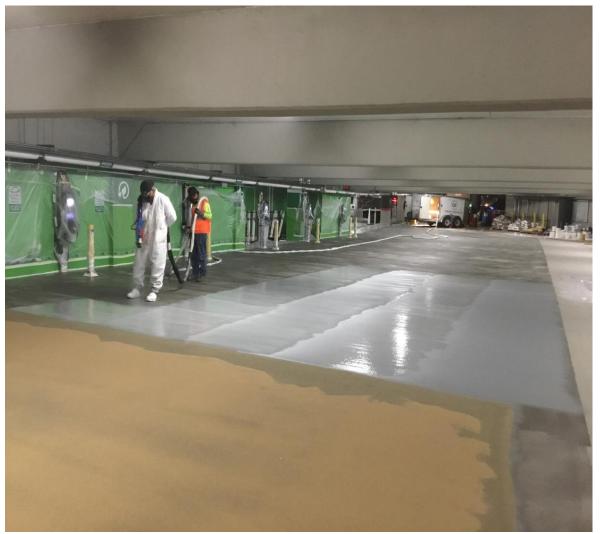


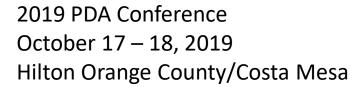


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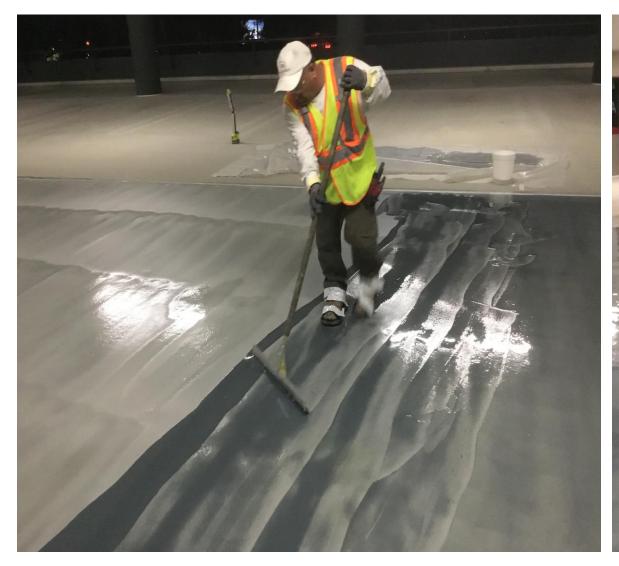




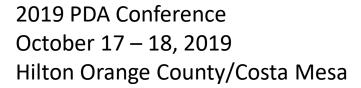




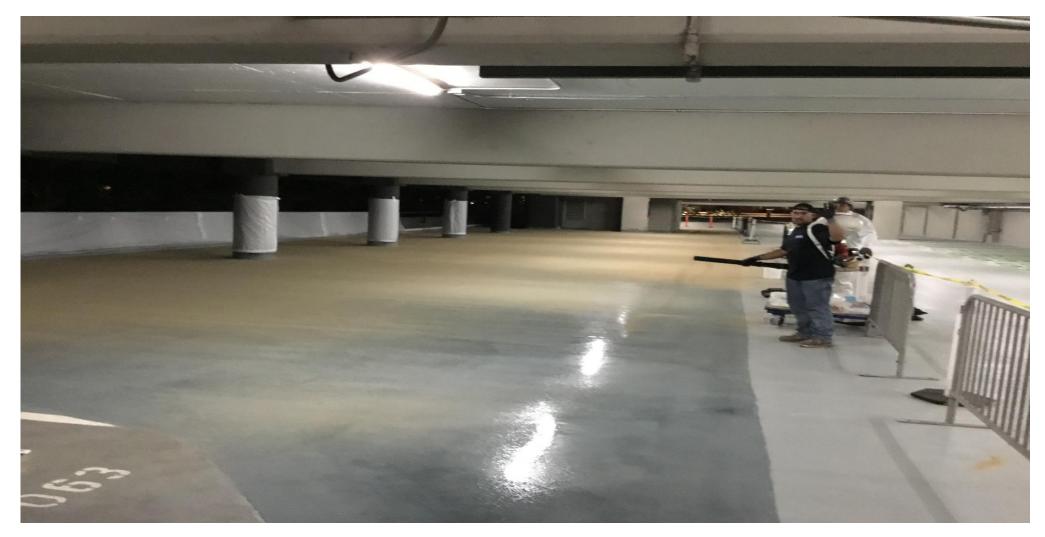




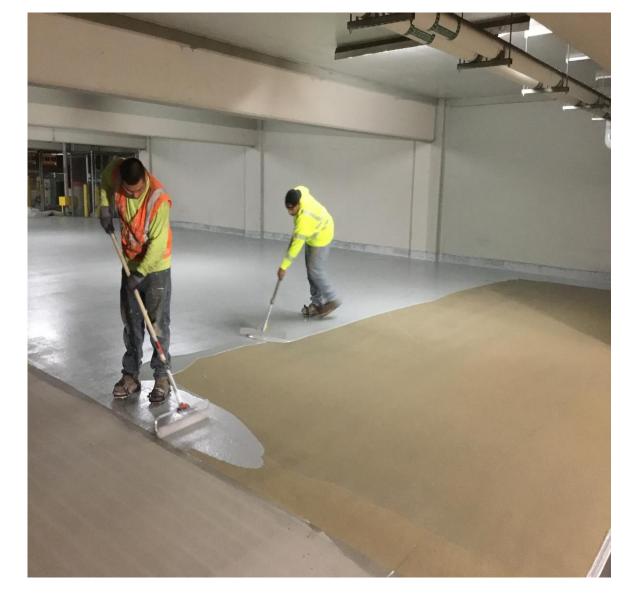


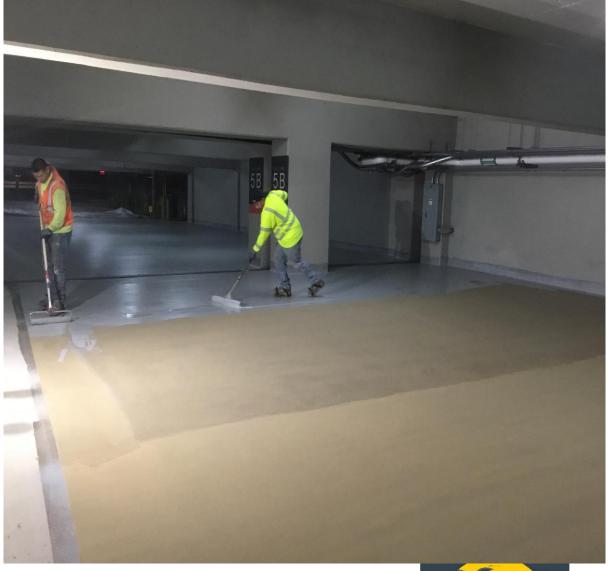






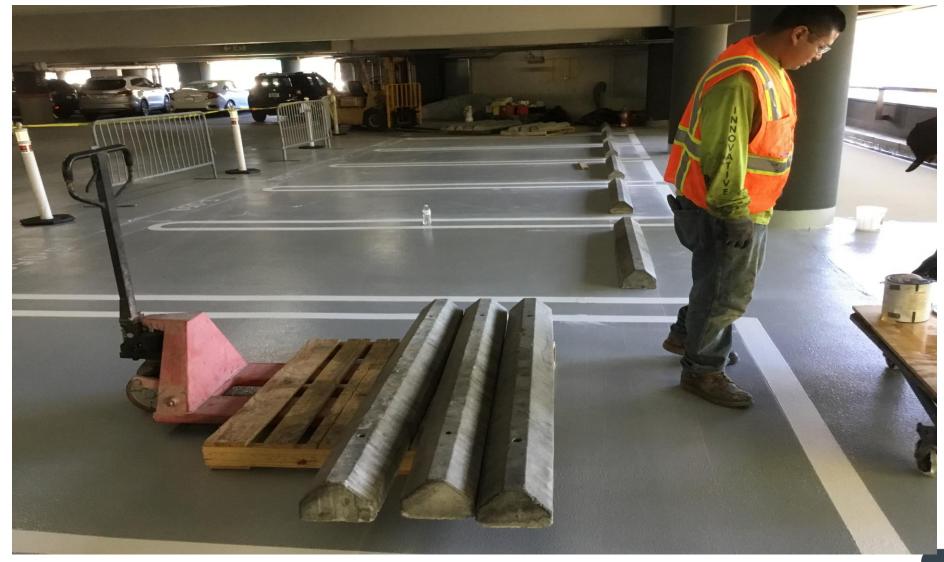




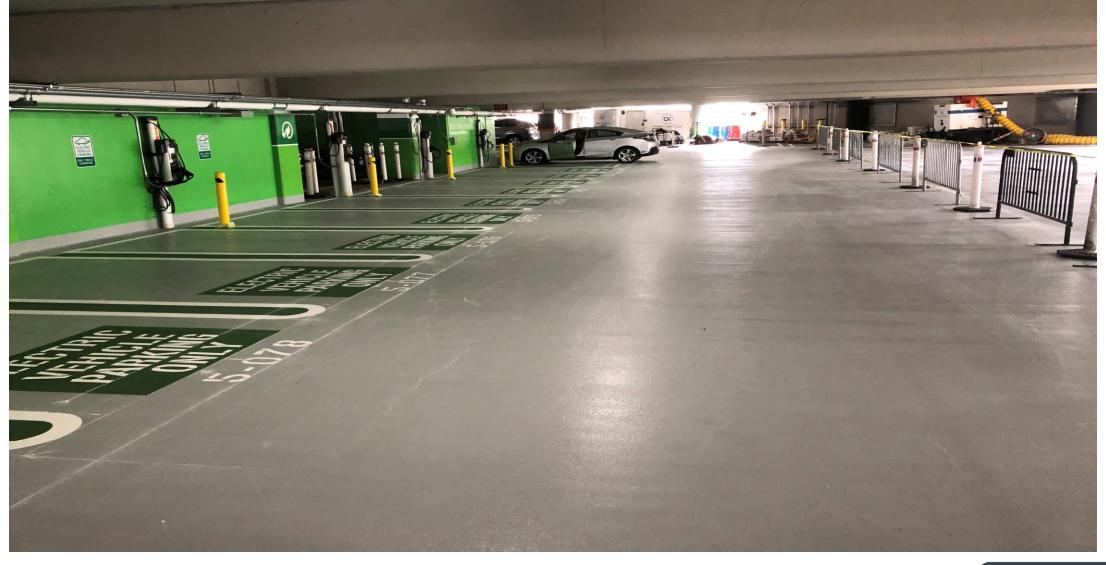


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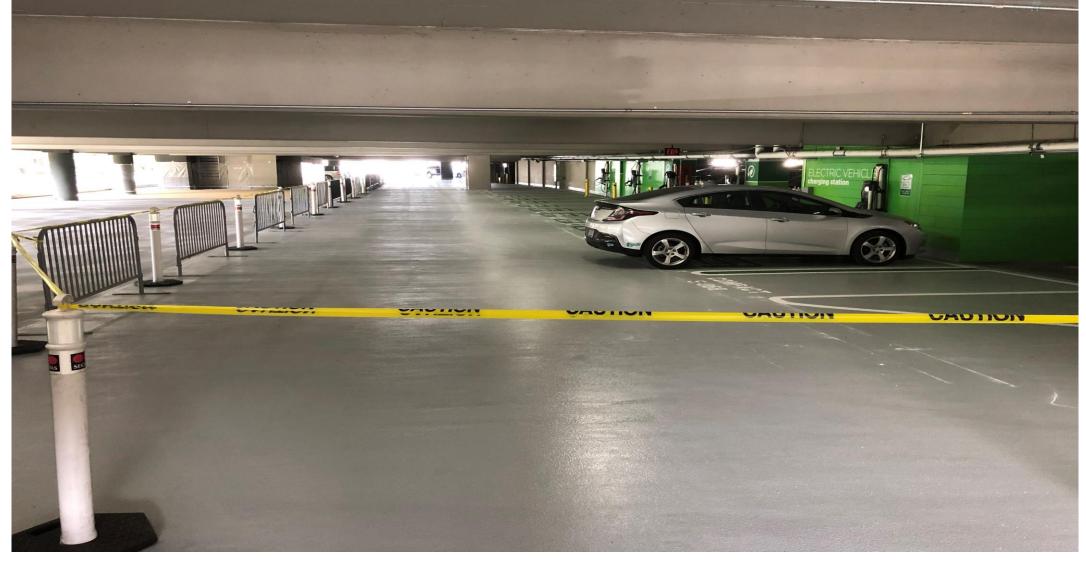














2017- Hollywood Gateway

Loading Dock & Roadway over parking structure

32,000 sf

Remove parking bumpers, degrease with water extraction

Remove existing urethane coating and shot blast

Chase and repair cracks with Urethane sealant

Repair spalls using Rapid Set Cement based high strength mortar

Install 100% solids Epoxy primer

Install 2nd coat of 100% solids Epoxy primer at 8 mils and broadcast to refusal # 30/40 aggregate

Install 60 mils of Polyurea

Install 20 mils wear coat with washed round 1/120 aggregate broadcasted to refusal

Install Topcoat with 16 mils Polyaspartic

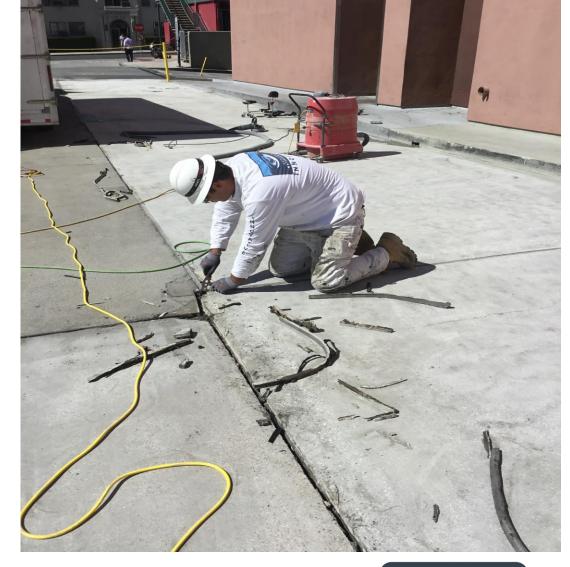
Install backer rod and 2 component sealant to control joints





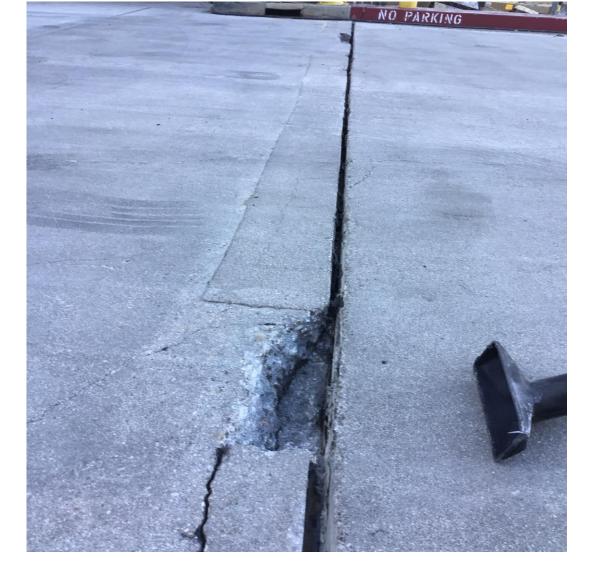






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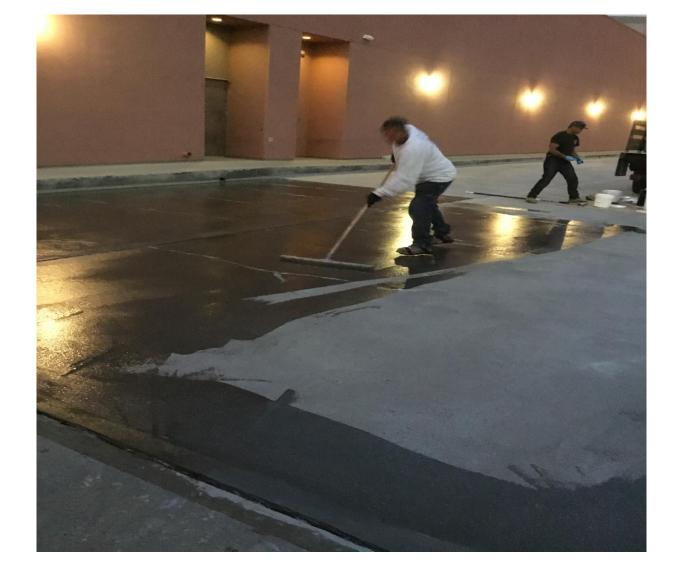


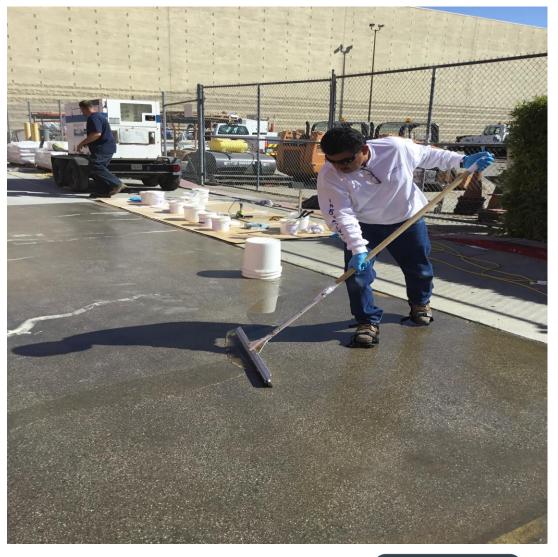


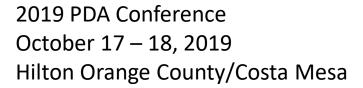


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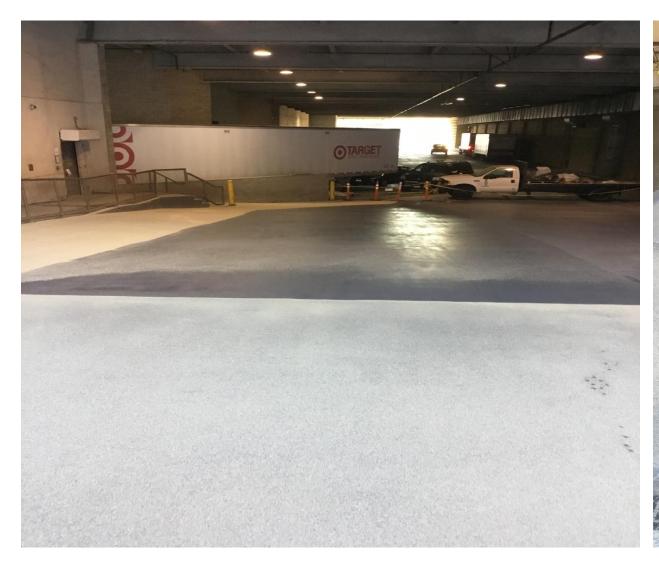




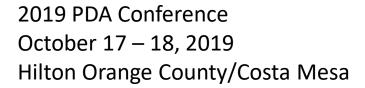












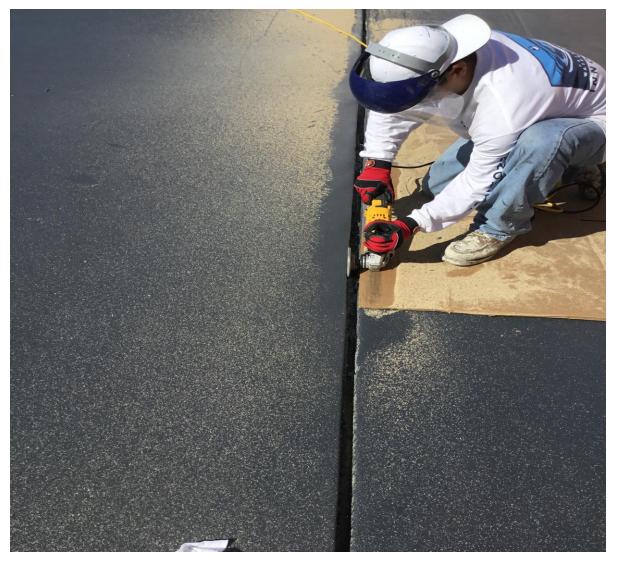






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Thank you

Don Dancey

