Podium Deck Waterproofing

Andaz Palm Springs
Freedom was established in 2006. We recently moved to our new location in Foothill Ranch, CA.
What is a Podium Deck

A **podium deck** is a structural element that is an elevated platform or one that has a void underneath it. It may have supporting columns that do not pass through this structural element.

- Plaza Decks
- Green/Garden Roofs
Traditional Products

- **Hot Rubber**
  - 350° - 400° F
  - Hot kettle
  - Fabric
  - Protection board
  - Neoprene at transitions

- **Cold Liquid Applied**
  - Extended cure times
  - Multiple applications
  - Protection board

- **Sheet Goods**

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Polyurea Benefits

- Speed of application
- Return to service
- Smaller crews
- Vertical applications
- No protection board required
- No reinforcing sheet required
- Unlimited UV exposure**
- No noxious odors
- Can withstand ponding water

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Andaz Palm Springs

Andaz hotels are upscale lifestyle boutique-style hotels operated by Hyatt. This hotel is set to open Spring of 2020 in downtown Palm Springs.

• Pools
• Shopping
• Restaurants

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Project Details

- 76,000 square foot podium deck in downtown Palm Springs

- Phase 1 started September 2018 and finished in April 2019 (50,000 sqft)
  - Completed in 4 mobilizations

- Phase 2 set to start in November 2019

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Specification Details for Guardian-PD™

- 2K urethane sealant at 90’s
- Fast cure high strength concrete to repair uneven concrete surfaces
- Pre-sprayed verticals to allow for installation of flashing to stay on building schedule

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Specification Details for Guardian-PD™

• Broom finish was specified
  • Freedom required adhesion test (ASTM D 4541) to be performed with concrete failure in each location. Typically a shot blast finish is required but was not needed on this project.

• Application of FT-6160™ epoxy primer
  • 150 sqft per gallon
  • Required primer to be installed during descending deck temperatures to avoid excessive pin holing.

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Specification Details for Guardian-PD™

- Application of FT-2202™ polyurea
  - 96 mils (6 gallons per 100 sqft)
Challenges

• Temperatures
  • More about the temp swings (50 – 115 F)

• Winds
  • Afternoon winds OVERSPRAY!!

• Other trades
  • Quick set time was a huge savings!!!!

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Quality Control

- Required 3rd party inspection to obtain warranty
- Adhesion ASTM D4541
- Thickness measurements
- High voltage ASTM D-4787 (100 volts per mil of coating)
- Humidity ASTM E 337
- Moisture vapor emission ASTM F 1869-10
Unforeseen Issue

- Project delay caused delay in overburden installation
  - Traditional products typically need to be buried within 60 days of installation
  - There was a significant delay of more than 5 months before the overburden could be installed
  - The FT-2202™ polyurea was ok to be exposed providing significant savings to the project

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Project Summary

- ~20% savings to client vs hot rubber
  - Time ~5000 sqft vs. 1500 sqft
  - Labor 5 man cure vs. 10 man cure
  - Neoprene & protection board
- Speed up critical path to allow faster build schedule

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