



CLIENT CASE STUDIES

THE WORLD OF INDUSTRIAL GRADE COATINGS

2022 - 2023

For complete information associated with the application of all Spartan Epoxies **XRC PRO decking systems and products**, refer to the General Guidelines and Technical Data Sheets of the **Spartan Epoxies** catalog, which describes the products, surface preparation, job conditions, finishing details, and other necessary information.



AC Hotels Marriott Miami offers a stylish and sophisticated stay in the vibrant city of Miami, Florida. With a prime location and modern design, this hotel embodies the essence of European-inspired luxury combined with the energetic spirit of Miami.

AC Hotels Marriott required a durable and high-performance coating for their parking garage. To ensure a successful project, Spartan Epoxies collaborated with **Best Buy Waterproofing** (The Contractor), providing detailed guidance and step-by-step instructions for concrete preparation, crack and joint repair, and coating application processes. The contractor installed Spartan Epoxies' **XRC PRO X5 Vehicular Traffic Deck System**, known for its exceptional durability and waterproofing properties.

TO ACHIEVE EXCEPTIONAL RESULTS, THE FOLLOWING COATINGS AND APPLICATION PROCESS WERE IMPLEMENTED:

PHASE 1: SURFACE PREPARATION

Check and prepare the area of application. Prime joints, cracks, and flashings with ULTRA FLEX1000. Bridge joints and cracks with Straight Jacket Tape. Allow the surface to cure for 4 to 6 hours.

PHASE 2: PRIMER APPLICATION

Prime concrete and metal with PRO-PRIME84. Ensure a tack-free coating before proceeding.

PHASE 3: XRC PROGUARD APPLICATION

Apply catalyzed XRC PROGUARD at the specified rate. Achieve a minimum thickness of 14 ± 2 dry mils. Allow to cure.

PHASE 4: XRC PROGUARD APPLICATION

Apply catalyzed XRC PROGUARD at the specified rate. Achieve a minimum thickness of 14 ± 2 dry mils. Allow to cure.

PHASE 5: XRC PROGUARD WITH AGGREGATE

Apply a second coat of catalyzed XRC PROGUARD. Broadcast washed, dry, rounded sand for a slip-resistant finish. Achieve an additional thickness of 12 ± 2 dry mils. Allow to cure. This step was repeated for heavy traffic and turning radii.

PHASE 6: XRC PROGUARD FINISHING COAT

Apply a third coat of catalyzed XRC PROGUARD topcoat. Achieve an additional minimum thickness of 14 ± 2 dry mils. Allow 24 hours of cure time. Keep vehicular traffic off for at least 72 hours.

CONCLUSION

The implementation of Spartan Epoxies' XRC PRO X5 Vehicular Traffic Deck System in the parking garage of AC Hotels Marriott yielded exceptional results. By following the detailed steps and guidance provided by Spartan Epoxies, the contractor successfully transformed the parking garage into a highly durable and visually appealing space.

The XRC PRO X5 Vehicular Traffic Deck System provided numerous benefits for AC Hotels Marriott:

Durability: The multi-layered system, including the use of XRC PROGUARD and a slip-resistant finish, offers outstanding durability and withstands the challenges of heavy vehicular traffic.

Waterproofing: The application of the system ensures superior waterproofing protection, safeguarding the parking garage against water damage and preventing potential issues.

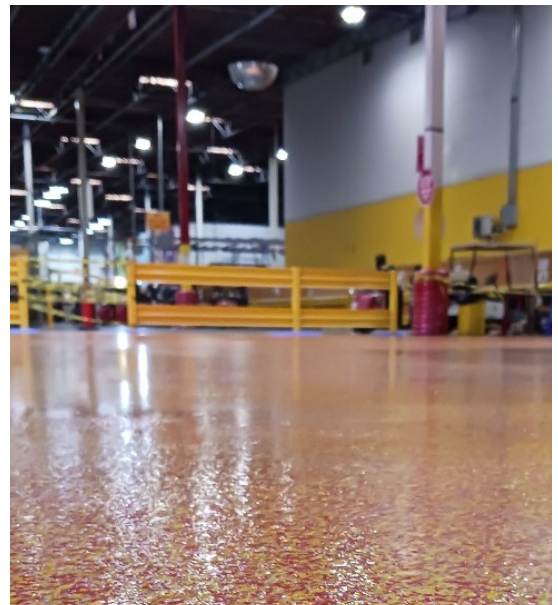
Aesthetics: The final result of the coating process enhanced the overall appearance of the parking garage. The slip-resistant finish, along with optional line striping using epoxy paint, created a visually appealing and organized space.

Fire Rating: The XRC PRO X5 Vehicular Traffic Deck System comes with a Class A Fire Rating, providing an added layer of safety and compliance with fire regulations.

With the successful implementation of Spartan Epoxies' XRC PRO X5 Vehicular Traffic Deck System, AC Hotels Marriott can now benefit from a transformed and highly functional parking garage. The system's durability, waterproofing capabilities, improved aesthetics, and fire rating contribute to a safe, visually appealing, and long-lasting parking solution for both guests and staff.

CONTRACTOR: CANDELARIA HIGH PERFORMANCE FLOORS**FULL FLAKE SYSTEM**

For complete information associated with the application of all Spartan Epoxies Coatings, refer to the respective products Technical Data Sheets, which describes product details, surface preparation, crack and joint repair, job conditions, finishing details, and other necessary information.



DHL, a renowned logistics company, sought a superior flooring solution for their 12,000 sq ft facility in Los Angeles, CA, which experiences high vehicular and fork truck traffic. To meet their needs, Spartan Epoxies recommended their **4-layer Full Broadcasted Decorative Flake System with a Polyaspartic Urethane Topcoat**. The project involved concrete grinding by **Candelaria High Performance Floors** (The Contractor), who also filled the joints with backer rod and Spartan Epoxies' **UltraFlex1000 - Elastomeric System** to ensure the slabs could move without causing coating failure.

TO ACHIEVE EXCEPTIONAL RESULTS, THE FOLLOWING COATINGS AND APPLICATION PROCESS WERE IMPLEMENTED:

PHASE 1: SURFACE PREPARATION

A contractor performed concrete grinding to prepare the substrate, ensuring optimal adhesion and a smooth surface for the coating system. The contractor also filled the joints with backer rod and Spartan Epoxies' fast-set polyurea to accommodate slab movement and prevent coating failure.

PHASE 2: PRIMER APPLICATION

HDPRO primer was applied at a rate of 267 sq ft per gallon, resulting in a thickness of 6 mils. This primer provided a solid foundation for subsequent layers.

PHASE 3: MIDCOAT APPLICATION

HDPRO midcoat was applied at a rate of 133 sq ft per gallon, achieving a thickness of 12 mils. Polymer flakes were broadcasted until rejection, enhancing both aesthetics and durability.

PHASE 4: FINISHING COAT

The final layer consisted of HP44 Polyaspartic Urethane, a high solids polyaspartic product known for its exceptional durability and superior wear layer. Applied at a rate of 100 sq ft per gallon, this finishing coat provided enhanced protection and delivered a glossy, professional finish.

PROJECT TIMELINE: 2 DAYS

Thanks to an efficient application process, the project was completed within a span of 2 days. The primer and midcoat were applied on the same day, followed by the application of HP44 Polyaspartic Urethane on the subsequent day. A recommended curing period of 3 to 5 days allowed the coatings to fully cure and attain maximum strength.

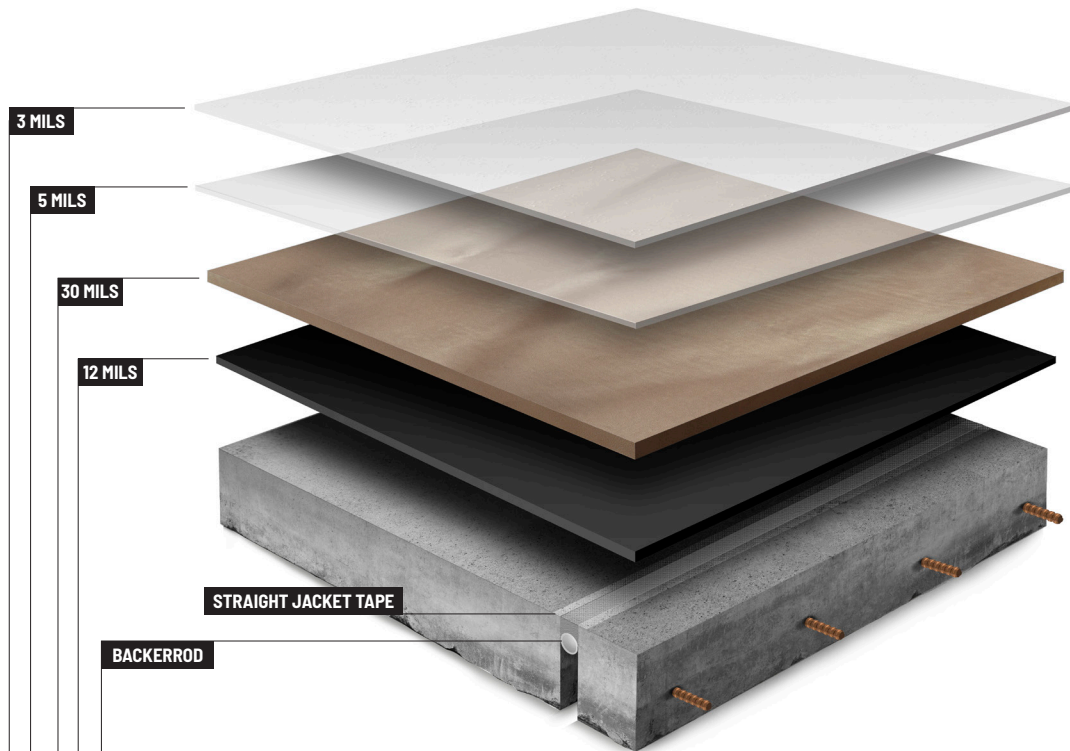
CONCLUSION

Spartan Epoxies successfully fulfilled DHL's flooring requirements by recommending their 4-layer Full Broadcasted Decorative Flake System with a high solids polyaspartic finishing coat, HP44 Polyaspartic Urethane. Collaborating with a contractor who performed concrete grinding and joint filling with backer rod and fast-set polyurea, the surface was expertly prepared to accommodate slab movement and prevent coating failure. The combination of durable coatings, meticulous surface preparation, and the use of HP44 Polyaspartic Urethane resulted in an exceptional flooring solution for DHL's high-traffic facility in Los Angeles. With its visually appealing finish, enhanced durability, and superior wear layer, DHL can confidently rely on their new floor to withstand the demanding operations while maintaining a professional, branded appearance.

RR ARMORY 11000 FT² BASKETBALL COURT

METALLIC EPOXY SYSTEM

* See individual data sheets for complete details.



To honor the client's privacy request, this case study will utilize a diagram and a pseudonym to ensure confidentiality.

PRODUCT LAYER DETAILS	MIL	COVERAGE
Joints: ULTRAFLEX 1000 - Fast-Set Polyurea	-	37 LF FT / GALLON
Layer 1: Primer / HDPRO - High Solids Epoxy - Black	12	133 SQ FT / GALLON
Layer 2: Midcoat / CLEAR100 + Guava Metallic	30	50 SQ FT / GALLON
Layer 3: HPU - High Performance Urethane	5	320 SQ FT / GALLON
Layer 4: HPU - High Performance Urethane	3	500 SQ FT / GALLON

Important: Coverage rates based upon properly prepared substrate

PROJECT DETAILS

Square Footage: 11,000
 Substrate: Concrete / Cement
 System: 4 Layer Metallic Epoxy System
 Epoxy Color: Black
 Topcoat: Clear
 Cracks: UltraFlex1000 (not in diagram)



* Computer generated colors, physical samples available



CLIENT OVERVIEW

An Armed Forces facility sought to revamp their basketball court, transforming it into a visually striking and durable surface that aligned with their brand and met the rigorous demands of their military activities. They turned to Spartan Epoxies, a trusted provider of high-quality flooring solutions, to accomplish their goals. While Spartan Epoxies did not directly install the coatings, their Sales Experts worked closely with the project manager and installer to ensure the customer's high standards were met. Spartan Epoxies provided the coatings and comprehensive support, ensuring that perfection was achieved throughout the project.

PROJECT SCOPE:

The project involved a comprehensive floor transformation encompassing diamond grinding, joint filling, epoxy priming, metallic system application, and topcoat sealing. The objective was to create a basketball court that not only showcased impressive aesthetics but also withstood the rigorous activities and demands of the Armed Forces facility.

EXECUTION DETAILS:

Diamond Grinding:

The existing floor was diamond ground to prepare the surface for optimal adhesion and smoothness, ensuring a solid foundation for subsequent coatings.

Joint Filling:

ULTRAFLEX 1000, a high-performance joint filler, was utilized to fill the expansion joints, preventing moisture intrusion and maintaining structural integrity.

Primer Application:

To enhance adhesion and provide a base for the metallic system, HDPRO - High Solids epoxy system in black was applied as a primer at a thickness of 12 mils, ensuring a solid and uniform foundation.

Metallic System:

The metallic system was applied using CLEAR100 - 100% Clear Epoxy as a binder, creating a visually stunning and dynamic effect on the floor. Guava metallic pigment was skillfully incorporated to match the Armed Forces facility's distinctive brand colors, providing a unique and personalized touch.

Topcoat Sealing:

For exceptional durability and resistance to wear and tear, two coats of HPU - High Performance Urethane Topcoat were applied. The first coat was applied at 5 mils, followed by a finishing coat at 3 mils, creating a robust protective layer that would withstand heavy usage.

Curing Period:

To ensure the coating reached its maximum strength and durability, a 5-day waiting period was observed, allowing the coatings to fully cure.

Results and Benefits:

The collaboration between the Armed Forces facility's project team, the installer, and Spartan Epoxies' Sales Experts resulted in a truly remarkable basketball court transformation. Spartan Epoxies provided the coatings and comprehensive support, working closely with the project manager and installer to ensure the high standards set by the Armed Forces facility were met.

The application of diamond grinding, joint filling, and premium coating systems created a visually stunning surface that complemented the Armed Forces facility's brand identity. The use of the metallic system, with the addition of Guava pigment, provided an eye-catching and dynamic appearance that captivated users. The application of the HPU topcoat further enhanced the floor's longevity and resistance to abrasion, ensuring it could withstand the rigorous activities conducted by the Armed Forces.

The completed project not only met but exceeded the Armed Forces facility's expectations. The basketball court now stands as a testament to Spartan Epoxies' commitment to delivering exceptional flooring solutions that combine aesthetics, durability, and performance. With Spartan Epoxies' support and guidance, the project achieved perfection, fulfilling the customer's vision for their basketball court.

Conclusion:

The Armed Forces facility's basketball court project showcased the expertise and high-quality products offered by Spartan Epoxies. While not directly involved in the installation, Spartan Epoxies' Sales Experts worked closely with the project team to provide the necessary coatings and support, ensuring the customer's high standards were met. The comprehensive transformation of the basketball court, from diamond grinding to joint filling, primer application to metallic system installation, and topcoat sealing, resulted in a visually stunning and long-lasting flooring solution that reflected the Armed Forces facility's brand image and met the rigorous demands of their military activities. Spartan Epoxies' dedication to providing superior coatings and exceptional support ensured the project's success and customer satisfaction.