A SEA OF FLOORING OPTIONS

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There is no shortage of flooring systems on the market today, and choosing the appropriate system can be an overwhelming task. In a theme park environment, where hundreds of thousands of feet are walking over the floor surface each year, excellent abrasion- and wear-resistance is vital. According to Vasquez Jr., SeaWorld San Antonio has been partial to MMA flooring systems. MMA flooring systems are known for their abrasion- and wear-resistance and their incredibly fast cure times, MMA systems are 100% curred in one hour. "Over the past six years, we extend a real today for the past six years, we systems are 100% cured in one hour. "Over the past six years, we have installed MMA flooring systems at SeaWorld," says Vasquez Jr. "They've been really happy with the look and performance of

addition, we've found that it is easier to broadcast into the Hybri-Flex MC system. It cures a bit slower, allowing for the broadcast chip to lay out flat. The broadcast chips don't curl; they lay out like glass."

Vasque 2f, points out that when the broadcast chips don't curl, less sanding is required during the floor installation, and there tend to be fewer maintenance issues down the road. "Moisture and debris can collect in those curls and create problems with the integrity of the floor," he says.

floor," he says.

The crew mixes in a non-slip additive to make sure that the floor, while smooth and glassy, is also slip-resistant.

Shamu Déjà Vu



ABOVE ▲ "We had to rent a Bobcat and make a special blade with a lip to get under the carpet. Even then, removing the carpet was slow going," says Vasquez Jr.

Another advantage to the hybrid flooring system is the moisture tolerance of the urethane base coat. The Hybri-Flex MC system, which consists of Poly-Crete MD SL as the urethane base coat, tolerates moisture vapor up to 12 lbs. (5.44kg)/1,000 sq. ft. (92.90m²)/24 hours. Comparatively, a straight MMA system tolerates 5 lbs.



ABOVE A Fortunately, most of the concrete was in good condition. In any area requiring repair, the crew used Cement All, a rapid-set, non-shrink concrete repair material.

(2.27kg)/1,000 sq. ft. $(92.90m^2)/24$ hours and epoxy systems tolerate 3 lbs. (1.36kg)/1,000 sq. ft. (92.90m2)/24 hours.

Vasquez Jr. thinks of the Hybri-Flex MC system as a bit of an insurance policy when it comes to stopping moisture vapor from undermining the performance of the flooring system.

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ABOVE ▲ The crew poured the Poly-Crete MD SL urethane base coat at a thickness of 1/8" (0.32cm) onto the cleaned and prepped floor.

"Overall, we feel that by installing the hybrid system, we are giving SeaWorld San Antonio what we believe is a better build coat, but with the same function and look they expect from an MMA system," he states.

SHAMU'S SPRING BREAK RUSH

River City was ready with the right flooring system for the job, but could they complete the work before the onslaught of spring break crowds? "The budget was put into place a short time before spring break, so there was no room for error on the schedule," says Vasquez Jr.

"We had to make sure that we allowed time for the staff to move all of their furnishings and products back in place before spring break."

BELOW In uneven patches, Vasquez and the crew applied two coats of Poly-Crete MD St. base coat. "However, because the urethane is self-priming, we didn't have to prime the entire floor before laying down the base coat," says Vasquez Jr.



JOB AT A GLANCE

Install flooring system in three retail spaces at SeaWorld San Antonio

COATINGS CONTRACTOR:

ivercitycoatings.net

SIZE OF CONTRACTOR

Small, family-run business; crew size varies depending on the size of the project

PRIME CHENT

SeaWorld San Anta

SUBSTRATE:

Concrete/ Quarry tile

SIZE OF JOB: Main Mast Gift Shop: 3,725 sq. ft. (346.06m²) Azul Gift Shop: 3,436 sq. ft. (319.21m²) Sweet Treats: 1,880 sq. ft. (174.66m²)

SIZE OF CREW:

UNUSUAL FACTORS:

- UNUSUAL FACTORS:

 Rick Vasques Sr. was the foreman on the concrete pour during the construction of SeaWorld San Antonio

 The Hybriflex MC Biooning system is an MWA hybrid system with a useflance base coot that, in most case, eliminates the need for a primer River City Coatings has found that the hybrid system is easier to broad-cast chips into them a straight MWA system

 Had to rent a Babcat and create a special blade to remove carpet in the AxII Gilf Shop as it had been adhered to the substrate using an epoxy glue

MATERIALS/PROCESS:

- MATERIALS/PROCESS:

 Pep Bloos using planetury diamond grinders [HTC 650 and SASE Company 5000] and custom 2nd (17-78 cm] standrup grinding

 Repair bugholes and voids using Cement All

 Rollerapply PolyCrete MD SI, the urethane base coat, at a thickness of 1/8nd (3.3 cm)

 Broadcast decorative 3nd 11.2 Cm; chips by Torginal

 Rollerapply 16 mils [0.4 1 mm] of Cn/4AGlaze G201, the NWA body control.

- coal
 Broadcast decorative chips
 Removed of excass chips and debris
 Rollerapply Cryf-A-Top T301, at a thickness of 16 mils [0.41 mm]
 Sand the Boaring system
 Rollerapply Cryf-A-Top T301, at a thickness of 16 mils [0.41 mm]

SAFETY CONSIDERATIONS:

- Safety glasses, gloves, and ear plugs used during the prep phase
 Safety glasses and glaves used by all material mixers
 MVA drums completely cured of all remaining material and solvent wiped for reuse

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ABOVE ▲ After the base coat had cured, the crew laid down 16 mils (0.41mm) of Cryl-A-Glaze G201 using an 18"-wide (45.72cm), 3/8" (0.95cm) nap roller.

"In each of the three spaces, the finished flooring system with the urethane base coat, MMA body coat, and two MMA top coats, has a thickness of 3/16" (0.48cm)."

Protection of the crew and the environment is extremely important to River City Coatings. According to Vasquez Jr., safety glasses, ear plugs, and gloves were worn at all times by the crew during the prep phase of the product. Crew members who were mixing the material for the pour phase were also required to wear safety glasses and gloves.
Poly-Crete MD SL is a water-based material; therefore, the

containers in which the material comes can be disposed of at the local landfill. The MMA containers are a different story, however. "We purchase the MMA in drums and cut off the lids after we use the material. We then cure off any material remaining in the drums and solvent wipe for reuse," says Vasquez Jr.

"A local drum company comes and picks them up."

BELOW THE SURFACE

In today's competitive marketplace, it is easy to lose sight of the importance of long-standing relationships built on trust and proven results. While Vasquez Sr.'s history with the theme park makes for a good story, without River City Coatings' hard work, dedication,



ABOVE A "In areas where the floor is multi-colored, such as in the Main Mast Gift Shop, we laid down one color first, going all the vay to the first top coot. Then we applied the second color, once again going all the way to the first top coot. We then sanded the entire floor and applied the final top coot," vay Yauquez Jr.

and a commitment to doing the job right and on schedule, it would be just that—a good story. Instead, with a track record of successful projects, River City Coatings has built a foundation for continued work at SeaWorld San Antonio. "We are their go-to flooring system contractor," says Vasquez Ir.

"We have a great relationship with the staff at SeaWorld San Antonio. We realize that they are often limited with time constraints for installs. They know that when they call us, they are our Number

And although River City Coatings is a small, family-run business, Vasquez Jr. says they are not ones to shy away from challenges. "We have successfully taken on some large projects with tight schedules even though we are still a relatively small coatings contractor.'

And it certainly goes without saving that this most recent SeaWorld San Antonio project qualifies as one such job. C

BELOW Vasquez Jr. describes the finished floors, "In each of the three spaces, the finished flooring system with the urethane base coat, MMA body coat, and two MMA top coats, has a thickness of 3/16" (0.48cm)."



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