

CRYL-A-FLEX Applications

Product: Cryl-A-Quartz, Cryl-A-Tex
Customer: Saltgrass Steakhouse, Houston, TX
Industry: Restaurant
Date: September 1999

PROBLEM:

This project involved a total re-model of the 2,300 SF kitchen and bar area. The problem is that there are only 7 days to accomplish the work that includes demolition of walls, adding drains, removal and installation of equipment. As there is other trades during the day, the work to the floor could only be done at night.

SOLUTION:

The floor rehabilitation begins with the repair of the substrate. This involved 500 SF of 4-6 inch deep repair of deteriorated substrate and patching around new drains. This is done with Cryl-A-Tex (MMA) polymer concrete. The next step is to prepare and prime the concrete with Cryl-A-Prime P-101. The following evening the MMA coves and the double broadcast Cryl-A-Quartz is installed in the dry

storage area. The last evening the floor is installed in the kitchen and bar area. With a very tight construction schedule, Cryl-A-Flex's fast cure enabled the work be accomplished over night. The 1-hour cure gives the other trades a fully cured floor every morning. Another benefit of the Cryl-A-Flex system is its ability to always bond to itself. There is never the fear of a cold joint between layer of the system.



CRYL-A-FLEX

Applications

Product: Cryl-A-Quartz, Cryl-A-Tex
Customer: National Institute of Health, Bethesda, MD
Industry: Medical Research
Date: August 1999

PROBLEM:

The problem at this facility is the 13,000 SF concrete driveway and loading dock area at the radioactive waste recovery building. The concern is that in the event of a spill the area would not be contained. There are problems with cracked and spalled concrete and 1,725 LF of joints that had been improperly repaired. A material is required that will function for containment, cure quickly (the work is to be done on a weekend) and be suitable for an outdoor environment.



SOLUTION:

It is determined that the Cryl-A-Flex (MMA) will meet all the criteria. The first step is to remove existing caulk and all loose material from the joints. The best way to accomplish this is with water blasting. 120 Cu. Ft. of Cryl-A-Tex polymer concrete is used to patch and rebuild the joints. The area is then prepared by shot blasting and a double broadcast of Cryl-A-Quartz (Q 11) system with a single top-coat is installed.



CRYL-A-FLEX

Applications

Product: Cryl-A-Tex (Polymer Concrete)
Customer: Bethlehem Steel, Sparrow Point, MD
Industry: Steel, Rolling Mill
Date: January 2000

PROBLEM:

The concrete floor is badly deteriorated due to heavy traffic and impact damage as the result of the 10-ton counter weight of the roll changer hitting the floor. The problem has escalated to where the damage to the concrete is from 1-6 inches deep. This damage is created a safety issue for the workers. The challenge is to fix the floor and not interfere with the continuous operation of the mill.

SOLUTION:

A material is required that can be used in a wide range of repairs, 1-6 inches deep and cure to full strength in 1 hour. There is typically only a 5-hour window between roll changes, so preparation, application and cure of the material has to be quick. The answer is the Cryl-A-Tex (MMA) polymer concrete system. The 2 component system can be used as a mortar up to 1/2 inch thick.

For greater depths it is extended with clean/dry pea gravel. The size and amount of gravel that is used

is a function of the depth of the repair. For the 6-inch deep repairs 45 LBS of 3/4 inch pea gravel is added to the 35 LBS of Cryl-A-Tex mortar. The result is a cost-effective material that is installed in one lift.



CRYL-A-FLEX

Applications

Product: Cryl-A-Quartz & Cryl-A-Tex for patching
Customer: Navy-Marine Corp Memorial Stadium,
Annapolis, MD
Industry: Arena/Recreation
Date: July 2005

PROBLEM:

The concrete surface (40,000 SF) under the stadium seating, which is exposed to weather, had deteriorated over the years. The concrete had cracked, pot holes had formed and the joint edges have broken away. This area also included the bathrooms and concession stands. The pathways from this area, under the stands to the seating area, which are steep, were also worn. The area is in need of a major face lift and resurfaced for safety reasons.

SOLUTION:

A versatile product was necessary as it had to be resistant to a wide range of chemicals from those used in a bathroom, de-icing salts, UV resistant, anti-slip and aesthetic finish product. The system that met all the criteria was the MMA based material systems from Dur-A-Flex. Some special shades of blue quartz were used to match the Navy colors. The texture was also designed to meet the requirements of the area in which it was installed. The quick cure of the MMA also allowed the project to be completed in the required construction schedule.



CRYL-A-FLEX Applications

Product: Cryl-A-Chip SL & Cryl-A-Tex for leveling
Customer: Orthopaedic Surgery Center of Idaho,
Boise, Idaho
Industry: Healthcare
Date: July 2006

PROBLEM:

After the owner had moved into their newly built facility they discovered that they had a major problem with the concrete. Specifically the floor was not flat. It was actually so bad that if left unattended a gurney or wheel chair would roll across the room. A survey of the floor flatness revealed that in some of the rooms the floor had a difference in elevation of over 2.5 inches. There was approximately 6,200 SF of floor that had to be leveled and 600 feet of cove to be installed. And of course the floor had to be fixed with as short of shut down as possible.

SOLUTION:

It was determined that the fastest way to get the problem rectified and get the facility back into operation was with the use of Dur-A-Flex's MMA based materials. First the high spots in the building had to be located. Then a laser was used to set new elevations to which the floor was leveled to. The leveling was done with Cryl-A-Tex, an MMA based polymer concrete. This material cures in one hour. The owners wanted a floor that would be seamless, low maintenance, and work in a hospital environment. It was determined that a 3/16 inch thick Cryl-A-Chip SL floor would be the perfect solution. This system also meets all the USDA/FDA requirements and is NSF registered.



CRYL-A-FLEX

Applications

Product: Cryl-A-Quartz SL & Cryl-A-Tex
Customer: Space Needle, Seattle, WA
Industry: Recreation/Dining
Date: Spring 2004

PROBLEM:

Every four years, the floor in the Observation Deck had to be repaired. The owners looked at the life cycle costs and realized that they had to come up with a better solution to fit their business needs. The floor was being repaired so often because the membrane had failed, there were problems with spalled concrete and, water was leaking into the Restaurant below. The challenge was to do the restoration to the Observation Deck with no interruption to the in the operating schedule.

SOLUTION:

Dur-A-Flex's MMA based Cryl-A-Quartz SL was the system that could be used because this material cures to full strength in one hour and can be used in an outdoor environment. The work was done through the night when the facility was closed and finished each day in time to open for normal business hours. When the old deck was removed they found that the original material to slope and pitch the deck to the drains was far more deteriorated than anticipated. To facilitate the correct pitch, Cryl-A-Tex (MMA) polymer concrete was installed prior to the installation of the floor system.



CRYL-A-FLEX 50 Applications

Product: Cryl-A-Tex
Customer: Neate Roller, Freezer Floor, Toronto, Canada
Industry: Food Service Distribution
Date: March 2008

PROBLEM:

The aisles in the freezer floor had deteriorated to a point that made them a safety issue by creating excessive damage to fork lifts and damaging product. Attempts had been made over the years to patch the floor with various products with very limited success. How would they be able to repair a floor that is at 0°F over a week-end and not interfere with the warehouse operation?

SOLUTION:

The contractor knew that the only solution was Cryl-A-Tex polymer concrete from Dur-A-Flex, Inc. Since this MMA based system is capable of being installed in temperatures as low as -20°F, 0°F was not a concern. A 250 SF sample was installed 6 months prior to the larger application of 900 SF so that the customer could be assured of a successful application. The project involved removing ½ inch of failed topping, and installing tenting to control dust and to achieve the necessary ventilation for the material application. The demolition was more extensive than anticipated because they had to remove concrete up to 2 inches deep. Once the area was cleaned and all loose concrete removed, the surface was primed with Dur-A-Flex's Cryl-A-Prime P-101, which took 1 hour and 15 minutes to cure. The deep holes were then filled with Cryl-A-Tex that was extended with dry pea gravel. This again took about 1 hour and 15 minutes to completely cure. The patches were re-primed and the ½ overlay of Cryl-A-Tex was installed. The work was completed; the area was cleaned up and ready for operation on Sunday evening.

