

Case Study

State of Indiana
Indianapolis, IN

FAST FACTS

Customer

State of Indiana

Location

Indianapolis, Indiana

Owner

State of Indiana

Industry

Parking Industry

Solution

DEK-Guard™

Project Completion

September 2012



PROJECT OVERVIEW

22,000 square feet of decking, within a major downtown parking garage, needed repair and protection from severe weather and harsh conditions. Pedestrian safety needed to be addressed due to the damp, icy, and slippery conditions. Downtime was imperative as the parking facility had to remain operational.

CHALLENGE

The demanding high traffic environment required a water and stain-proofing solution that was durable, long-lasting, and affordable. Due to the harsh Indianapolis winters a textured system was required, as the cars needed an environment where they could gain traction. The existing safety yellow curbing needed to be coated due to heavy abuse and deterioration. The parking facility had to remain open during the installation. These large sections had to be completed one at a time. All work had to be completed within a ten hour window, and the garage returned to full operation. The product chosen may be required to cure at low temperatures.

SOLUTION

Res-Tek's DEK-Guard™ was installed providing a high level of durability and performance required by the parking deck environment. Taking advantage of the properties of MMA, resulted in a product that offered increased durability and flexibility. DEK-Guard extends the life of the parking structure by increased waterproofing and diminishing damage caused by chemical aggression.

DEK-Guard combines superior tensile strength and relatively high elongation rate to provide an improved toughness not found in typical urethane or epoxy coating system. Due to the fast curing time (even at temperatures as low as -15°F) the parking structure was available to normal traffic within sixty minutes after the application of the topcoat. Slip resistance was added for safety and traction. The Res-Tek safety yellow DEK-Guard system was added to the curbing for a long lasting and durable finish. The decking is easy and affordable to maintain, UV stable, and aesthetically pleasing.

PRODUCT OVERVIEW

Based on our clients' concerns and specific market demands, Res-Tek's experienced team of industry experts has developed a protective coating solution specifically designed for parking deck facilities. This demanding, high traffic environment requires water and stain proofing solutions that are durable, long-lasting, and affordable. Res-Tek's DEK-Guard™ (MMA-based deck coating system) is a high quality and high performance system with a one-hour cure time allowing you to resume operations one hour after product application.

DEK-Guard is the flagship for our new RT-600 line of products. It provides the high level of durability and performance required in the parking deck environment by taking advantage of the properties of MMA, resulting in a product with one-hour cure time, extended durability and increased flexibility. In addition, DEK-Guard demonstrates a high level of visual appeal designed to engage as well as inform users.

DEK-Guard™

RT-600 SERIES ADVANTAGES

Fast Curing: Your parking structure will be available to normal traffic in no more than 60 minutes after application of top coat

Low Temperature Curing: Down to -15°F

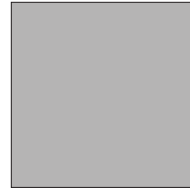
Durability: Extends the life of parking structures by increased waterproofing and diminishing damage caused by chemical aggression

Toughness: While other systems may focus on flexibility and elongation, DEK-Guard combines superior tensile strength and relatively high elongation rate to provide an improved toughness not found in typical urethane or epoxy deck coating systems.

ADDITIONAL FEATURES

- Abrasion resistant
- Excellent bond strength
- Weather resistant
- UV resistant
- Slip resistant
- Stain resistant
- Waterproof
- Solvent free
- VOC compliant

AVAILABLE COLORS



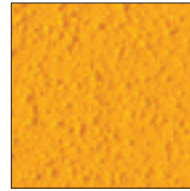
Concrete Gray



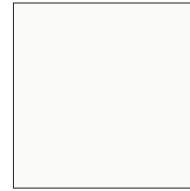
Light Gray



Silver Gray



Safety Yellow



White

PHYSICAL PROPERTIES

Property	Value	Test Method
Percentage Reactive Resin	100%	—
Adhesion (RT-641R Primer)	Exceeds Tensile Strength of Concrete	ASTD 4541
Elongation (RT-650 Flexible Membrane)	80% to 90% at Rupture	ASTM D638
Tensile Strength (RT-675 Body Coat)	1,150 psi	ASTM D638
Hardness (RT-680 Topcoat)	73 (Type D)	ASTM D2240
Chemical Resistance Week Acids Alkalis Salt Solutions Sunlight (UV) Oil, Grease, Transmission Fluid	Effect None None None None None	ASTM D543