Challenges

One of the leading UK distribution companies for drinks required an increased health and safety standard within the entry doorways at their plant in Leeds.

The issues were:

- The fork lift traffic often carried rain water and contaminates into the entry areas that then presented a potential slip and skid hazard.
- The areas concerned were in constant use and could not be closed for long periods to allow for conventional floor coatings to be applied.
- A new floor safety system was being investigated through out the warehouse; various colours and safety logos were being considered.
- No fumes, odour or solvents were specified as part of their environmental impact policy.

Quaker wanted to show that by using RapidShield™ the plant would gain the following benefits over conventional floor paints:

- Instant curing
- Improved wear and durability
- Excellent chemical resistance
- One-component formulation
- Low or no VOCs and low odor
- Reduced floor maintenance costs
- Reduced application downtime
- Increased safety
- Minimization of any dirt/contaminates entering the surface

References Use of UV Technology

- Laminate flooring
- Plastic and other composite automotive parts
- CDs, DVDs, and other media
- Wood Furniture
- Electronic circuit boards
- Teeth and women's nails

Providing Solutions

The manufacturer agreed to apply RapidShield™ to its floors. The use of RapidShield™ floor coating resulted in:

- Substantial application and downtime savings
- Reduction of any slip or skid hazards

The project would normally require each section to be out of action for 12-18 hours. Each 25 m^2 section was completed and handed back in less than two hours including surface preparation. An anti-slip top coat was applied as part of the system to reduce and nearly eliminate any slip or skid hazards. The requirements of the environmental impact policy were fulfilled. Over time, the coating maintains its highly reflective finish and is easy to clean.

Product and Process Expertise

Quaker's RapidShield™ floor coating products are unique in the industry. These revolutionary products utilize state of the art UV-light technology in order to dry nearly instantaneously, providing a surface with superior gloss, hardness and chemical resistance. Special photo initiators present in the floor coating cause it to harden so rapidly the "wet look" of the coating is locked in place, and allow the floor to accept industrial traffic within mere seconds of being exposed to the special UV-light system. During the hardening the coating "cross links" forming a 3-dimensional polymer with far greater hardness and superior chemical resistance to conventional coatings that require hours or days to fully harden.

Environmentally Friendly • Conforms to LEED Guidelines •

Before RapidShield™

After RapidShield™

Application and Equipment Information

RapidShield™ Floor Coating

Floor Area:	75 m^2
Substrate:	Old power floated uncoated concrete
Surface Preparation:	Enclosed blast clean and grind
Products:	RapidShield™ 0007 Clear RapidShield™ 0902 Safety Red anti-slip white oxide
Equipment:	Quaker 3-phase UV-unit
Applicator:	In conjunction with local CFC (Certified Flooring Contractor)
Specific Operation:	RapidShield™ Floor Coating (colour with anti-skid)

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