



Challenges

AXCL Gulf, a privately owned company in Dubai, is manufacturer, packager and licensee of numerous lubricants and other oil based products. When the owners wanted to replace a delaminated epoxy floor at their blending facility, they turned to Quaker to solve their problems.

The issues were:

- The epoxy floor coating, applied just six months earlier, started to break up and cause health & safety issues.
- Slip issues caused by the contaminated and difficult to clean floor.
- Contamination from flaking floors was being transferred into packing.

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 odour
- 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 use of RapidShield™ floor coating resulted in:

- NO SLIP OR SKID HAZARDS
- AN EASY TO CLEAN AND MAINTAINABLE FLOOR
- CONTINUED PRODUCTION WHILST FLOOR COATING WAS BEING APPLIED
- ALL FINISHED PACKAGED PRODUCTS WERE CLEAN AND SUITABLE FOR SALE

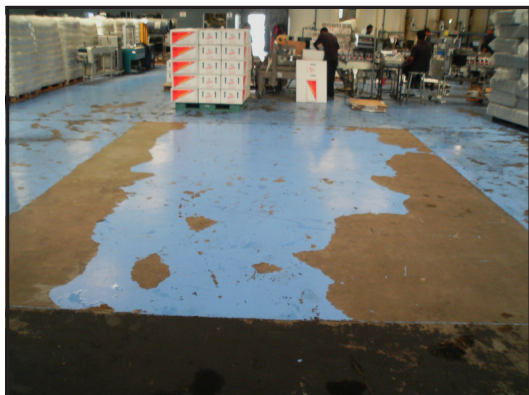
Health & safety across the site was dramatically improved and no more slips or trips were reported. Production was able to continue throughout the application process as no fumes or odours contaminated the raw materials stored near by.

The chemical resistance of RapidShield™ has stopped the staining and degradation from any accidental spillages from the AXCL's fluids and the longer lasting and cleaner floor has improved the workers' attention and moral.

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.





Before



After

Application and Equipment Information

RapidShield™ Floor Coating

Floor Area:	1650 m ²
Substrate:	Old concrete with failed epoxy coatings, dirt and oil contaminates
Surface Preparation:	Degrease to remove oils and dirt, ground to remove all old coatings
Products:	RapidShield™ 0007 Clear RapidShield™ 0008 High Build RapidShield™ 0304 Light Gray
Equipment:	Quaker 3-phase UV-unit
Applicator:	In conjunction with local CFC (Certified Flooring Contractor)
Operation:	RapidShield™ Floor coating (High Build primer and colour coat)

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