



Quaker

RapidShield™ Floor Coating

1. What is RapidShield™?

RapidShield™ is a field applied, high-performance polyester UV-curable floor coating system designed for new or existing concrete floors. The one-component formulation is applied by roller or squeegee and requires a mobile UV Floor Curing Lamp to cure the system.

2. What are the benefits of RapidShield™ over conventional floor coatings?

- Cures instantly
- Improved wear and durability
- Excellent chemical resistance
- One-component formulation
- Low to no VOCs
- Low odor
- Reduced floor maintenance costs
- Reduced application downtime
- Increased safety

3. What information material is available?

- Trifold in multiple languages
- Case Studies
- Fact Sheet
- Technical Data Sheet
- Material Safety Data Sheet
- Technical Floor Application Manual including the Application, Curing, Troubleshooting of the RapidShield™ product and UV-machine. This document also includes the safety requirements around the product and the UV-machine.
- Videos
- PowerPoint presentations
- Web sites (quakerchem.com, rapidshield.com)
- Custom color sample tiles

4. Who are our customers?

Those who are willing to pay for or have value for the benefits of a UV floor coating system, which from our research are industrial or manufacturing facilities such as:

- Aircraft component manufacturing plants
- Automotive stamping plants
- Automotive powertrain plants
- Can manufacturers
- Truck and equipment assembly plants
- Warehouses

5. What is the cost to have a trial area applied?

Please contact your Quaker representative.

6. What type of floor preparation is needed before RapidShield™ can be applied?

Comparable to existing floor coating systems, RapidShield™ requires complete removal of the existing coating, with the floor ground and shot blasted. See Technical Floor Application Manual.

7. Can RapidShield™ be applied to an existing coating or to wood or tile floors?

No. The current product line is specifically designed for concrete.

8. How is RapidShield™ applied and cured?

RapidShield™ is applied by either roller or squeegee. The product is cured using a driven UV Floor Curing lamp that cures the coating instantly.

9. Who will apply the coating?

To be able to apply RapidShield™ you must have completed the Quaker Certified RapidShield™ Coating Contractor Training Course (CFC). Please contact your Quaker Representative.

10. Where do you go to buy a UV machine?

The machine can only be leased from Quaker or purchased from an approved and certified source. The machine and the product have been carefully developed to be used in conjunction together.





11. How long does the application need? How much can be done in a day?

After surface preparation has been completed, 12,000 ft² can be applied and cured within an eight hour workday. The UV Floor Curing Lamp can theoretically cure 140 ft²/minute for clears and 100 ft² for colors.

12. How is RapidShield™ applied in tight corners and around pillars?

A hand held UV Lamp Unit can be used in areas where the large curing unit can not reach.

13. What power supply is needed for the preparation and curing equipment?

The power requirements are generally 208-240 V at 50 Hz single-phase. The UV Floor Curing Lamp requires a minimum of 40 amp. See Technical Floor Application Manual.

14. Which colors of RapidShield™ does Quaker sell?

Quaker offers a standard color palette, but has the capability to provide custom colors. (Ask to see our color chart.)

15. What is the durability of the coated floor? What is the lifetime?

The durability versus traditional floor coatings at Quaker's industrial test site has proven to be 2-3 times longer. The life time will be dependent on the amount of traffic and how well the coating is maintained.

16. Is the coated floor smooth / rough / filled?

RapidShield™ has been designed to be a high gloss smooth surface, although the finish can be modified for skid/slip resistance and a lower gloss.

17. What are the costs of RapidShield™ coatings compared to conventional floor coatings?

The applied cost is comparable to existing floor coating systems.

18. What is the price of the product and UV machine?

Please contact your Quaker representative.

19. What are the safety requirements for both the product and the UV Curing Lamp?

- Non flammable
- Low odor
- Low to no VOCs
- No solvents or isocyanates

However as the product is cured with concentrated UV light, proper use and PPE protection is required by the operator. See Technical Floor Application Manual.

20. Is the floor non-slip under all conditions?

Slip is dependent on the plant environment and shoe type. The product currently conforms to ANSI A1264.2/2006 standard of a non-slip coating. Should the slip resistance not meet your requirements, common additives can be added to enhance non-slip properties. Test areas are a reasonable way to determine fitness for use of slip resistance.

21. What are the physical test results, hardness, drag resistance, impact etc.?

See Technical Data sheet of RapidShield™.

22. What is the chemical and solvent resistance of the coating?

See Technical Data sheet of RapidShield™.

23. Are any types of detergent harmful to a floor coated with RapidShield™?

Most industrial cleaners have no impact on RapidShield™. Avoid exceptionally concentrated high or low pH cleaners and the use of highly concentrated bleach.

24. Does Quaker have a gap/crack filler that can be UV cured?

A crack filler is currently under development.

25. Is UV RapidShield™ self-leveling and up to what thickness can it be built up in one layer?

RapidShield™ is a thin film system and therefore not self leveling. The typical thickness is 50-100 μ/coat up to a maximum thickness of 375 μ of multiple layers. A high built system is currently being evaluated. Refer to the RapidShield™ System Design Documentation.