



## 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. It requires a mobile UV-unit to cure the system.

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

- Cures instantly
- Improved wear and durability
- Excellent chemical resistance
- One-component formulation
- No VOCs and low odour
- Reduced floor maintenance costs
- Reduced application downtime
- Increased safety
- Minimizes any dirt / contaminants entering the surface

### 3. What information material is available?

- Trifold
- Fact sheet
- Application sheets
- Material Safety Data Sheet
- Colour chart
- Chemical resistance sheet
- Cases
- 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 including before and after pictures
- Web site ([www.rapidshield.com](http://www.rapidshield.com), [www.quakerchem.com](http://www.quakerchem.com))
- Custom colour sample swatches

### 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 like:

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

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

Please contact your Quaker representative or local CFC (Certified Flooring Contractor).

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

Similar to existing floor coating systems, in most cases RapidShield™ requires complete removal of the existing coating, with the floor ground and shot blasted. See Application sheet.

### 7. Can RapidShield™ be painted on an existing floor coating and applied to wooden or tile floors?

The current product line is specifically designed for concrete. Contact your Quaker representative or local CFC for the latest advances.

### 8. How is RapidShield™ applied and cured?

RapidShield™ is applied by either roller or squeegee. The product is cured using a portable unit that emits an intense source of UV-light. The RapidShield™ system consists of 1 – 4 layers.



### 9. Who will apply the coating?

Please contact your Quaker representative or local CFC. In some cases Quaker can also act as main contractor and work with the CFC to apply the product.

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

The machine can only be leased from Quaker.  
The machine and the product have carefully been developed to be used in conjunction with each other.

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

One unit can coat 300-600 m<sup>2</sup>/day, although the limiting factor is the surface preparation and the specification of the UV floor coating (i.e. clear coats, colour systems and/or demarcation lines and floor signs).

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

The product can be applied into corners and edges with a roller or brush. We offer a hand held UV-unit that can be used in these areas where the large unit cannot reach.

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

The power requirements are generally 220 - 240 V at 50 Hz single-phase for the hand held or smaller UV-units or three phase 415 V 50 Hz for the industrial higher performance models. See Technical Floor Application Manual.

Always check with your Quaker representative or local CFC regarding power availability prior to arranging any trial.

**14. Which colours of RapidShield™ do Quaker offer?**

Quaker offers a standard colour palette, but has the capability to provide custom colours.  
Metallic and exotic colours have yet to be explored. See Colour chart.

**15. What is the durability of the coated floor, what is the lifetime?**

The durability verses traditional floor coating at Quaker's industrial test site has proven to be 2 to 3 times longer. Lifetime will be dependent on type and amount of traffic and other wear resistance requirements.

**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™ 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 implications (positive and negative) for the product and UV-machine?**

- Non flammable
- Low odour
- No VOCs
- No solvents or isocyanates

However as the product is cured with concentrated UV-light, proper use and 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. It is the responsibility of the customer to make the final determination of RapidShield™ use.

The product currently conforms to ANSI A1264.2/2006 standard of a non-slip coating.

Should the slip resistance not meet the your requirements, common additives can be added to the RapidShield™ to enhance non-slip properties.

Test areas are a reasonable way to determine fitness for use of slip resistance.

Independent test data are available on request.

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

See Application sheet of RapidShield™.

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

See Chemical resistance 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. Do we have a gap/crack filler that can be UV cured? Can it go up to ± 10 mm?**

Please contact your Quaker representative or local CFC for the latest advances.

**25. Is UV RapidShield™ self levelling and up to what thickness can be built up in one layer?**

RapidShield™ is a thin film system and therefore not self levelling; the typical thickness is 50-100 µ per coat up to a maximum thickness of 375 µ of multiple layers. A clear high-build system is available as a sealer/primer coat applied at thicknesses of 250-500 µ per coat.