



RapidShield™ 1002 CT WB Matte Topcoat

Application

RapidShield™ 1002 CT WB Matte Topcoat is a low gloss, waterborne, UV cured, permanent coating intended for use on concrete counter tops. RapidShield™ 1002 CT WB Matte Topcoat is a low VOC coating that complies with European directive 2004/42/CE, which limits volatile solvent contents in paints and varnishes.

Product Suitability

RapidShield™ 1002 CT WB Matte Topcoat is used as a final top coat over top of RapidShield™ 0001 CT Primer, over top of RapidShield™ Color(s), or directly to the concrete counter top. If applied directly to the counter top, the pH of the concrete must be <10. RapidShield™ 1002 CT WB Matte Topcoat is designed to provide a light to medium duty, low gloss, easily cleaned surface. It is suitable for use in commercial and residential counter tops.

Benefits

- VOC Compliant (<140 g/l)
- Excellent chemical and stain resistance
- Easily cleaned
- Low gloss film to hide defects and uneven appearance of counter tops
- Rapid drying and immediate return to service after UV curing
- Applied with standard application equipment
- Single component
- Excellent wear resistance

Limitations

The minimum application temperature for RapidShield™ 1002 CT WB Matte Topcoat is 10°C and 3°C above dew point. Optimum application temperature is 20°C. Maximum relative humidity is 85%. RapidShield™ 1002 CT WB Matte Topcoat should not be applied over wet concrete. The concrete should be <75% relative internal humidity before applying RapidShield CT products.

Property	Test Method	Typical Value
Typical Properties - Product as Received		
Appearance	GTM 2240	White Liquid
Specific Gravity	GTM 1510	1.06 +/- .1
Viscosity (#3 Zahn S90)	GTM 1626	23 +/- 2 s @ 77°F
VOC (less water and exempts)	Theoretical	1.13 lbs/gal
Volume Solids	Theoretical	31.1 +/- 2 % volume
Coverage (@6 mils wet)	Theoretical	270 ft ² /gal
Recommended Thickness	Wet Dry	5.0 - 7.0 mils 1.6 - 2.3 mils
Typical Properties - Cured Film (at 1.9 mils dry)		
Appearance	GTM 2240	Clear Film
MEK Resistance*	ASTM D 5402	>25 Double Rubs
Pencil Hardness	ASTM D 3363	>= 2H
Gloss (at 60° observation)	ASTM D 523 - 08	>25 - 50 Gloss Units
Intercoat Adhesion**	ISO 2409, ASTM D3359	100% Adhesion
Abrasion Resistance (1000 cycles, CS17, 100 g)	ISO 5470-1, ASTM D 4060	<75 mg wt. loss

* Refer to our Chemical Resistance Sheet for additional information.

** On top of properly applied and cured RapidShield™ 0001 CT Primer



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General Instructions

The following directions and recommendations are intended to serve as a guide and may require modifications to meet local needs:

Thinning: RapidShield™ 1002 CT WB Matte Topcoat is designed to be used as supplied. Thinning of this material voids all product performance indications.

Mixing: RapidShield™ 1002 CT WB Matte Topcoat is designed to be used as supplied. Check to see if any material has soft settled to the bottom of the container. A five minute mix (or until all soft settled material has been reincorporated, whichever is longer) of the product with a power mixer is required. However, one should avoid incorporation of excessive amounts of air during this process and may wish to wait for up to 30 minutes after mixing before applying on the counter top to allow air release from the product.

Materials: RapidShield™ 1002 CT WB Matte Topcoat is designed for coating of concrete counter tops. Please contact your Quaker representative or local (CCA) Certified Countertop Applicator for advice on any other substrates.

Surface Preparation: RapidShield™ 1002 CT WB Matte Topcoat may only be used as a final top coat over top of RapidShield™ 0001 CT Primer, RapidShield™ Color(s), or directly to the concrete counter top surface. If applied directly to the concrete, the pH must be <10.

It is essential that RapidShield™ 1002 CT WB Matte is applied to sound, clean (free of contaminants) and dry surfaces to ensure maximum adhesion. RapidShield™ 1002 CT WB Matte is designed for coating applications which require typically 5 to 7 mils per coat.

1. Remove dirt, dust, oil, grease, and other surface contaminants before coating. Acid etching is not recommended.
2. Ensure your surface is completely cured, dry, and free from alkali stain and moisture.
3. Prepare the concrete surfaces using an Orbital Sander preparing the surface at a maximum 120 grit profile for long term adhesion.
4. Vacuum the surface removing all debris and dust.

5. Wipe the remaining dust using a mixture of 1 part Denatured Alcohol and 3 parts water. The Denatured Alcohol will force the water to flash off.
6. Make sure surrounding areas are very clean from all debris, i.e. dirt, dust, grease, oil, etc. where the UV lamp is positioned and the product and other tools are located.

Application: RapidShield™ 1002 CT WB Matte Topcoat may be applied by roller, squeegee or a micro-fibre pad. A lint free, 10 mm nap, roller is recommended for application by roller and for back rolling squeegee applied coating. Use with adequate ventilation. Avoid breathing mist or vapors. Consult Material Safety Data Sheet for handling and safety information.

Shelf life: Shelf life is limited to one year in the original packaging and when stored under conditions described below.

Drying: RapidShield™ 1002 CT WB Matte Topcoat must be completely dry prior to UV curing of the coating. Drying time depends upon several variables including, but not limited to, wet film build applied, ambient temperature and humidity, and air flow over top of the coating. In its wet state, the coating is white and either completely or partially opaque. The film must be completely transparent with no white areas, and be completely tack free to the touch before it is cured with the UV unit. Blistering or lifting of the coating during UV curing is the result of the coating not being completely dry.

Curing Instructions

Only UV curing equipment authorized by Quaker Chemical Corporation and verified to be in proper operating condition may be used to cure RapidShield Products. Curing instructions and parameters are supplied during the (CCA) Certified Countertop Applicator Training Session. Failure to comply with any of these conditions may impact product performance.



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Care and Cleaning

RapidShield™ 1002 CT WB Matte Topcoat should be cleaned on a regular basis. All normal non-abrasive household or institutional cleaners should be acceptable cleaning agents for this Topcoat. However, if the cleaner has never been used before, it is wise to pick a small area and test the cleaner for discoloration or softening of the Topcoat before wide spread use.

Storage, Safety & Disposal

Quaker supplies this quality product in pails; other packaging can be made available by Quaker or by your local Dealer upon request.

RapidShield™ 1002 CT WB Matte Topcoat should be stored in dry conditions and protected from direct sunlight. Avoid temperatures below 10°C and above 35°C during storage or shipment. Note: RapidShield™ 1002 CT WB Matte Topcoat is not freeze-thaw stable. Care must be taken during winter months to ensure the material does not freeze. In addition, RapidShield™ 1002 CT WB Matte Topcoat is sensitive to excessively high temperatures. Avoid prolonged exposure to temperatures above 35°C.

RapidShield™ 1002 CT WB Matte Topcoat is unlikely to present any significant health or safety hazards when used as recommended by Quaker. Good standards of personal and industrial hygiene are to be maintained by the user (see Material Safety Data Sheet). In order to protect the environment, the product should be safely disposed of by a licensed contractor. The packaging material should be handled by a recognized reconditioning firm.



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