



QC VOC 100 WB

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QC VOC 100 WB

Uses and Benefits

■ QC VOC 100 WB is a water-based acrylic sealer containing less than 100 g/l VOC.

- QC VOC 100 WB meets new July 1, 2006, Southern California Air Quality Management District standards.
- QC VOC 100 WB meets LEED's standards and qualifies for LEEDS points.

■ With satin level of gloss, and resistance to oil or water penetration, QC VOC 100 WB is an excellent sealer for both interior and exterior surfaces. This product is a good choice for concrete, masonry and stone surfaces where staining and dirt may be problems.

■ A water-based 100% acrylic emulsion, QC VOC 100 WB can be used both as a base coat for other water-based sealers or as a topcoat to dust-proof and protect concrete.

■ QC VOC 100 WB is an excellent sealer for the following existing or new surfaces:

- Colored, imprinted concrete
- Colored concrete that has been uncoated or stripped
- Acid-stained or color hardened concrete that has been uncoated or stripped
- Uncolored concrete that has been uncoated or stripped
- Interior concrete surfaces that will be regularly maintained and recoated
- Exterior concrete surfaces that will weather naturally
- Exterior concrete surfaces that will be regularly maintained and recoated
- Exposed aggregate

■ QC VOC 100 WB increases durability of concrete surfaces.

■ QC VOC 100 WB is ideal for interior surfaces where solvent-based material cannot be used.

■ QC VOC 100 WB will not yellow, haze or flake.

■ QC VOC 100 WB can be tinted to enhance concrete that has been colored. (Tinted QC VOC 100 WB is designed to enhance the look of concrete that has been colored, not to function as the primary coloring system.)

Applicable Standards

QC VOC 100 WB exceeds coefficient of friction per ASTM D 2047-93 standards for slip-resistance.

Before Any Application

1. When using this sealer, surface must be structurally sound and clean – free of dirt, grime and other foreign substances like oils, silicones, all other waterproofing materials, form release agents, and most curing and parting compounds. The surface also must be completely dry before application. If surface is not clean or completely dry, the product may turn white or hazy. When working on interior surfaces, a QC MOISTURE TEST KIT* should be used in accordance with ASTM D 4263 standards to determine the amount of moisture movement in the concrete prior to the application of this product. In addition, a pH test should be done, using a QC pH pencil. Acceptable pH should range between 8-9. If outside of this range, contact QC CONSTRUCTION PRODUCTS. (Contact QC CONSTRUCTION PRODUCTS to order an individual QC MOISTURE TEST KIT* or a three-pack kit. Contact information for QC CONSTRUCTION PRODUCTS can be found at the end of this bulletin.)

For exterior surfaces, there is no method to effectively test for moisture movement and related problems. If moisture problems are suspected, pre-treat surface with QC CEMGUARD* according to the instructions in the corresponding Product Information Bulletin. QC CEMGUARD* is a clear, penetrating water-based sealer designed to harden, waterproof, protect and preserve concrete, even in the most adverse environments.

2. To clean uncoated or stripped surfaces, use one part QC CONCRETE DEGREASER AND NEUTRALIZER* to eight parts water. On smooth surfaces, scrub in with automatic scrubber or use a low-speed buffer equipped with scrubbing pads or brushes. After scrubbing surface, rinse with clean water or vacuum up QC CONCRETE DEGREASER AND NEUTRALIZER* and rinse with clean water. Allow surface to dry thoroughly before application. On rough surfaces or textured concrete, use the same equipment as with smooth surfaces but rinse with pressure-washer.

3. Before applying product, test QC VOC 100 WB in an inconspicuous area for desired results.

Note: If applying QC VOC 100 WB over old sealer, paint or other coating, it is also important to test for compatibility in an inconspicuous area. If in doubt about application, contact QC CONSTRUCTION PRODUCTS.

Application to New Concrete

1. For smooth-troweled concrete, a lambswool applicator may be used. For rough surfaces or textured concrete, a 1/2 inch nap roller is recommended. For small areas, a low nap roller may be used without the sprayer. Apply the sealer uniformly.

2. **Important:** When applying QC VOC 100 WB, do not allow the sealer to puddle. Apply the sealer as uniformly as possible, without leaving either spaces or puddles. It is better to apply two thin coats rather than one single, heavy coat. Allow each coat to dry before applying subsequent coats.

3. For acceptable oil and water resistance, a minimum of two coats must be applied.

4. For best results on interior surfaces with medium to high traffic, apply QC VOC 100 WB and then it is required to apply a surface finish product such as QC INTERIOR FLOOR FINISH* or QC NATURAL BEAUTY* for optimum performance. QC VOC 100 WB requires a minimum of 12 hours dry time before applying QC INTERIOR FLOOR FINISH* or QC NATURAL BEAUTY*.

Application to Existing or Old Concrete

1. Follow application steps listed in the "Before Any Application" section.

2. If applying sealer to existing concrete, paint or other coating, test prior to application in an inconspicuous area to ensure compatibility. If in doubt about compatibility with surface on existing concrete, contact QC CONSTRUCTION PRODUCTS.

Note: If applying over paint or previously sealed concrete, light sanding may be necessary in order to create acceptable substrate to insure proper adhesion of sealer.

3. After cleaning and testing surface, follow application steps listed above in the "Application to New Concrete" section.

Drying Times

■ **Note** – Drying times below will vary depending on surface porosity, temperature, humidity and local conditions.

■ **Set to Touch** – Surface can be lightly touched 30-45 minutes after application.

■ **Recoat** – Surface can be recoated one to two hours after each application.

■ **Light Traffic** – Light traffic can be allowed eight to twelve hours after final coat.

■ **Vehicle Traffic** – Vehicle traffic can be allowed two to three days after final coat, depending on temperature. Hot tire traffic or extreme turning of vehicles on the surface prior to proper drying time may leave permanent black marks or may remove sealer.

Maintenance

■ **Day-to-Day Cleaning** – QC VOC 100 WB, like all surface sealers, must be kept clean for maximum durability and protection. Frequent sweeping or vacuum-removal of loose soils will significantly increase the wear-life of QC VOC 100 WB or any surface coating.

■ **Maintenance Cleaning** – Surfaces sealed with QC VOC 100 WB should be cleaned with QC FLOOR CLEANER* (a water-based detergent cleaner), rinsed and allowed to dry. On interior surfaces where routine maintenance is required, use a low-speed buffing maintenance system.

■ **Removing Ground-in Soils** – For removal of ground-in soils, use QC FLOOR CLEANER* diluted to two to four ounces per gallon of water. For interior surfaces, use an automatic scrubber equipped with light-cleaning scrub pads. Pick up cleaner residue with a wet vacuum or automatic scrubber. For outdoor surfaces, scrub with a low-speed buffer. Rinse by pressure-washing thoroughly. For both indoor and outdoor surfaces, let dry before opening to traffic.

Removability

QC VOC 100 WB may be removed using QC SEAL STRIPPER*.

Limitations

■ QC VOC 100 WB is not a curing compound. Do not apply product to freshly placed concrete. Allow at least 14 days for concrete to cure. For optimum results, allow concrete to cure for 28 days or longer.

■ If applying QC VOC 100 WB to existing extremely hard-troweled concrete, call QC CONSTRUCTION PRODUCTS for technical assistance.

■ QC VOC 100 WB will protect concrete from dusting and soiling if applied properly, evenly, and with sufficient coverage as outlined in the application directions.

■ Inadequate coverage will dramatically reduce the performance of QC VOC 100 WB.

■ Failure to remove dirt and debris from the surface or failure to properly clean the surface will result in premature wear and will limit your ability to protect the concrete.

■ It is very important that QC VOC 100 WB be allowed to completely dry before temperature drops below 40° F or before contact with water.

■ Do not apply QC VOC 100 WB if the surface or ambient temperature is below 45° F, above 95° F, or if the temperature is expected to fall below freezing (32° F) within the 24-hour curing cycle.

■ Adhesive-backed tape (such as duct tape) left on QC VOC 100 WB over an extended period of time will create a chemical “weld” between the tape and the sealed substrate. If this happens, the sealer may be subject to delamination. Delamination can also occur when plastic or synthetic rubber mats are placed on the surface and left undisturbed over extended periods and when rubber tires on the sealed surface have been exposed to heat.

Coverage Guide

■ **Note** – Actual coverage may vary depending on surface porosity, texture, age and condition of the concrete, the application method, and other local conditions.

■ **Smooth Finish, Per Coat** – Material usage, per coat, is approximately 600-800 square feet per gallon.

■ **Rough or Broom Finish, Per Coat** – Material usage, per coat, is approximately 400-600 square feet per gallon.

Package Sizes

■ QC VOC 100 WB is packaged in 1-, 5- and 55 gallon containers.

Technical Data

■ Color White (unless tinted to QC specification colors)

■ Form Stable liquid emulsion, dries clear

■ pH 8.4 0.2

■ Solids Content 18%

■ Flash Point None

■ VOC Content Less than 100 grams per liter

■ Gloss 98 (ASTM Test D 523-89(94))

■ Powdering Nil (ASTM Test D 2048-93)

■ Recoatability Excellent (ASTM Test D 3153-87)

■ Shelf Life Store between 50-80° F in sheltered environment; do not store in sunlight; sealed, unopened product is under warranty for one year

Product Handling

For complete instructions on handling and use, consult the corresponding Material Safety Data Sheets before using products.

Warranty

QC VOC 100 WB, a proprietary product, is warranted to be of uniform quality within manufacturing tolerances. Since control is not exercised over its use, no warranty, expressed or implied, is made as to the effects of such use. Seller’s and manufacturer’s obligation under this warranty shall be limited to refunding the purchase price of that portion of the material proven to be defective. The user assumes all other risks and liabilities resulting from use of this product. If you have any questions, please contact QC CONSTRUCTION PRODUCTS.

*PLEASE REFER TO CORRESPONDING PRODUCT INFORMATION BULLETIN FOR TECHNICAL AND APPLICATION DATA.

www.qcconstructionproducts.com

For complete information on all QC products—including product information catalogs, product brochures, color charts, technical specifications, sales aids and more—contact QC CONSTRUCTION PRODUCTS.

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