



QC Surpro WB Matte

QC Surpro WB Matte (Water-based) Product Information Bulletin 19WM.0507P

QC SURPRO WB Matte

QC SURPRO WB Matte is a two-part, water-based polyurethane that forms a high-solids coating. QC SURPRO WB (water-based) Matte preserves and protects any above-grade concrete, masonry or stone. QC SURPRO WB Matte is the most durable, chemical-resistant barrier coating of the QC sealers, without the odor typically found in solvent-borne sealers. Formulated to seal and protect concrete and masonry that is subject to heaviest use conditions, QC SURPRO WB Matte is chemically resistant and highly durable.

Uses and Benefits

■ Due to the nature of this water-based sealer, a high level of diligence and strict adherence to the guidelines is required in regard to mixing, application, and environmental awareness. Mixing ratios, surface moisture, and temperature at time of application play a large role in the integrity and long-term durability of this sealer. We strongly recommend sampling and testing this material prior to large-scale application.

■ QC SURPRO WB Matte is an excellent coating for all interior architectural concrete surfaces.

■ This product is ideal for high-traffic areas like interior lobbies, food service areas and porte cochères. QC SURPRO WB Matte is well-suited for concrete countertops. The product is compatible with all stone and masonry surfaces.

■ QC SURPRO WB Matte will inhibit the passage of water or any other liquid, retard efflorescence, and will resist peeling, flaking, blistering or discoloring of properly prepared substrates. QC SURPRO WB Matte inhibits the growth of mold and mildew.

■ QC SURPRO WB Matte resists tire marking.

Before Any Application

1. Surface preparation: When using this sealer, the 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, curing and parting compounds, and any sign of efflorescence. Surface also must be completely dry before application. If your surface is not clean or completely dry, the sealer may turn white or hazy, or the sealer may fail to form a proper film. If you need to properly prepare surface, follow the steps listed for “Application to Existing or Old Concrete.”

2. If aggressive moisture movement on interior concrete is suspected, exact moisture movement levels can be measured using a moisture test kit in accordance with ASTM D4263 standards, following the manufacturer’s instructions. Moisture measurements of five pounds and below are acceptable. If measurements fall outside of this range, QC SURPRO WB Matte should not be applied.

3. Hard troweled burnished concrete must be chemically or mechanically prepared to promote proper adhesion. Extremely dense or burnished surfaces should be slightly abraded to better accept QC SURPRO WB Matte. Abrade with QC CON CLEAN*, Muratic acid or with 100 grit to 120 grit sanding screen to achieve this level of surface profile.

4. QC CONSTRUCTION PRODUCTS utilizes the International Concrete Repair Institute (ICRI) Concrete Surface Profile (CSP) standards for specifying finished surface roughness prior to applying QC SURPRO WB Matte. For proper adhesion, the concrete must be a minimum #2 according to the ICRI CSP chart. Contact the ICRI at www.ICRI.org or QC CONSTRUCTION PRODUCTS for more information on these surface profiles.

5. QC SURPRO WB Matte should only be applied to substrates above 50 °F and below 100 °F.

Application to New Concrete

QC SURPRO WB Matte should be applied only after concrete has fully cured, approximately 28 days.

Warning! Do not apply QC SURPRO WB Matte to fresh concrete.

1. Surface preparation: QC SURPRO WB Matte is not recommended for application over surfaces previously painted or sealed with other sealers. When using this sealer,

your 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, curing and parting compounds, and any sign of efflorescence. Surface also must be completely dry before application. If your surface is not clean or completely dry, the sealer may turn white or hazy, or the sealer may fail to form a proper film.

2. The following mixing instructions for QC SURPRO WB Matte must be strictly adhered to. Add one part (by volume) QC SURPRO WB Matte Part B (cure) to three parts QC SURPRO WB Matte Part A (resin) in an open container. Mix well with mechanical mixer until thoroughly blended. QC SURPRO WB Matte will initially turn white when mixed, but will dry clear after 4-8 hours, depending on application thickness, temperature and humidity.

After mixing, let stand for 5 to 10 minutes (induction time) to allow mixed product to “relax.” Product will thin slightly and become easier to apply after induction time. DO NOT mix more sealer than can be used in a 30-minute period.

Before QC SURPRO WB Matte dries, clean up equipment and overspray with QC CONCRETE DEGREASER AND NEUTRALIZER* (dilute two ounces of QC CONCRETE DEGREASER AND NEUTRALIZER* to one gallon of water).

3. Before applying product, test QC SURPRO WB Matte in an inconspicuous area for desired results. For application questions, contact QC CONSTRUCTION PRODUCTS.

4. QC SURPRO WB Matte is best applied with a high-quality, 1/4-inch short nap roller, followed by a spiked roller.

5. If applying to extremely porous surface (like bead-blasted concrete), test a small amount of the sealer in an inconspicuous area to determine number of coats required for adequate coverage.

6. For adequate protection on porous surfaces, at least two coats should be applied. Use a high-quality, heavy nap roller, (1/2 inch or 3/4 inch) followed by a spiked roller. The second coat, or subsequent coat(s), must be applied within four to eight hours of the previous coat to ensure proper adhesion.

Application to Existing or Old Concrete

1. Surface preparation: QC SURPRO WB Matte is not recommended for application over surfaces previously painted or sealed with other sealers. As noted, when using QC SURPRO WB Matte, your surface must be structurally sound and clean—free of dirt, debris and other foreign substances like oils, silicones, all other waterproofing materials, form release agents, curing and parting compounds, and any sign of efflorescence. Your surface must be thoroughly cleaned, rinsed and allowed to completely dry before application. If your surface is not clean or completely dry, the sealer may turn white or hazy, or the sealer may fail to form a proper film.

2. If stripping off old sealer is necessary, use QC SEAL STRIP* or QC INTERIOR FLOOR STRIP* or consult QC CONSTRUCTION PRODUCTS.

3. To clean surface, 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, absorb QC CONCRETE DEGREASER AND NEUTRALIZER* and rinse with clean water. Rinse thoroughly and allow surface to dry before application. On rough surfaces or textured concrete, use the same equipment as with smooth surfaces but rinse with pressure-washer. The surface must have sufficient profile to properly adhere. Hard-troweled, burnished concrete must be lightly etched using QC CON-CLEAN* prior to application.

4. If applying over a previous application of QC SURPRO WB Matte that is more than eight hours old, sand surface with a 120-grit sanding screen and clean with QC FLOOR CLEANER* diluted to two ounces per gallon of water. Rinse thoroughly and allow surface to dry before application.

5. If applying sealer to existing concrete, paint or other coating, test sealer prior to application in an inconspicuous area to ensure compatibility. For any questions regarding surface of existing concrete, consult QC CONSTRUCTION PRODUCTS.

6. After cleaning and testing surface, follow application listed in the “Application to New Concrete” section.

Limitations

- Do not apply QC SURPRO WB Matte 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.
- Failure to remove dirt and debris from the surface or failure to properly clean the surface before application will result in poor adhesion.
- DO NOT mix more sealer than can be used in a 30-minute period. Pot life is 60 minutes.
- Do not over apply QC SURPRO WB Matte (example: at a rate of 100-200 s.f./gallon). This may cause bubbling or foaming in the finish coat, creating a white, hazy appearance.

Coverage Rate and Drying Times

Coverage rates may vary depending on the texture, age and condition of the concrete, the application method, and other local conditions. We recommend applying two coats of QC SURPRO WB Matte.

- *Smooth Finish* – Material usage is 400–600 square feet per gallon/coat.
- *Rough or Broom Finish* – Material usage is 350–500 square feet per gallon/coat.

Drying times will vary depending on surface porosity, temperature, humidity and local conditions.

- *Recoat* – Surface can be recoated four to eight hours after each application.
- *Light traffic* – light traffic can be allowed 24 hours after final coat.
- *Vehicle traffic* – Vehicle traffic can be allowed one to two days after final coat, depending on temperature.

Package Sizes

QC SURPRO WB Matte is available in 1- and 4-gallon units.

Shelf Life and Storage

QC SURPRO WB Matte has a shelf life of one year. Store product indoors, away from heat or direct sunlight. Do not allow product to freeze.

Applicable Standards

QC SURPRO WB Matte complies with the following regulations and requirements:

- ASTM D2047 – exceeds slip-resistance requirements
- ASTM D523 for gloss (QC SURPRO WB Matte is 10)
- QC SURPRO WB Matte conforms to all California air quality requirements
- LEED Qualified

Technical Data

Please refer to the corresponding MSDS for hazard-related information.

- Color Liquid, clear
- Odor Mild
- Solids Content 51%
- Specific Gravity 1.07 when mixed
- Density 8.9 pounds per gallon when mixed
- Flash Point 200 °F (93.3 °C)
- VOC Content Less than 50 grams per liter
- Mix Ratio 3:1 by volume
- Viscosity 50-100 cps.
- Exterior Durability Excellent
- Water Resistance Excellent
- Chemical Resistance Very good

Product Handling

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

Warranty

QC SURPRO WB Matte 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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