



QC Color Cure and QC Clear Cure

For Professional Use Only

Product Information Bulletin 7.0506P

QC COLOR CURE

QC COLOR CURE, a water-based acrylic emulsion, can be used both as a color-matched curing membrane and as a colored semigloss finish sealer for new or existing colored concrete. This product is designed to protect architectural colored concrete as well as accentuate and enrich color in new or existing colored concrete. QC COLOR CURE meets ASTM C 309 standards for curing fresh concrete.

QC CLEAR CURE

QC CLEAR CURE, a ready-to-use, water-based acrylic emulsion, functions both as a membrane-curing compound that meets ASTM C 309 standards and as a sealer for colored and uncolored concrete. This product can be used on colored concrete as long as extreme care is taken to apply QC CLEAR CURE uniformly and to ensure that no alkalis become trapped between the concrete and the sealer. QC CLEAR CURE forms a dust-proof concrete seal that also repels water and stains.

QC COLOR CURE – Uses and Benefits

- QC COLOR CURE is an excellent product for curing colored concrete when applied to the following surfaces that will be regularly maintained and recoated:
 - Exterior colored concrete surfaces
 - Interior colored concrete surfaces
- QC COLOR CURE is an excellent product for sealing and finishing concrete when applied to the following:
 - Colored concrete that has been uncoated or stripped
 - Colored, imprinted concrete
 - Concrete that has been previously cured or coated with QC COLOR CURE
- For finished sealing, QC COLOR CURE can be recoated with additional QC COLOR CURE or QC CEMSEAL*.
- Easy to clean and maintain, QC COLOR CURE offers good exterior durability and excellent resistance to oil, water and food stains.

Before Any Application

1. When using this product on existing colored concrete, your surface must be clean, free of loose and unstable sealers or coatings, and completely dry before application. 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, pretreat the surface with QC CEMGUARD* according to the instructions in the respective 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. Prior to application on existing colored concrete, test QC COLOR CURE in an inconspicuous area to ensure compatibility. If in doubt about compatibility with surface on existing concrete, consult QC CONSTRUCTION PRODUCTS.

3. **Important:** Before applying, it is very important to completely mix QC COLOR CURE. Product should be stirred by hand or mixed well with a jiffy mixer.

Application – Curing New Concrete

1. QC COLOR CURE can be applied when your concrete has set to the point when you can walk on the surface without marring it and when the surface moisture has evaporated.
2. QC COLOR CURE is best applied with a fan tipped sprayer and then back rolled. Apply in even thin coats, and avoid overspray and puddles.
3. **Important Application Note:** Because QC COLOR CURE is borne in a milky-white emulsion, QC COLOR CURE when first applied will not be an exact match to its color chart chip or to the color of the freshly poured concrete. However, when QC COLOR CURE has completely dried, the surface color will correspond with the colored concrete.
4. To help achieve uniformity of color, an additional finish coat of QC COLOR CURE should be applied to freshly placed concrete cured with QC COLOR CURE. To avoid alkalis and salts from becoming trapped beneath the finish coating and causing discoloration, the concrete should be allowed to completely cure. Before applying the finish coat, allow at least 14 days for concrete to cure. For optimum results, allow concrete to cure for 28 days or longer.
5. For compliance with ASTM C 309 and ASTM C 156 standards (curing fresh concrete), apply QC COLOR CURE at an average rate of 400-600 square feet per gallon for smooth finishes and 300-400 square feet per gallon for rough or broom finishes. One coat is normally sufficient for adequate curing at this coverage rate.

Application – Sealing Existing Concrete

1. Surface must be thoroughly cleaned, rinsed and allowed to dry before sealing.
2. When sealing existing concrete with QC COLOR CURE, test prior to application in an inconspicuous area to ensure compatibility. If in doubt about surface on existing concrete, consult QC CONSTRUCTION PRODUCTS.
3. If applying over an existing sealer, a light sanding (200-500 grit) is recommended to promote better adhesion.
4. QC COLOR CURE is best applied with a fan tipped sprayer and then back rolled. Apply in even thin coats, and avoid overspray and puddles.

5. **Important:** When applying QC COLOR CURE, do not allow the product to puddle. Apply QC COLOR CURE as uniformly as possible, without leaving either spaces or puddles.

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 20 minutes after application.
- **Dry** – Surface will dry hard one hour after application.
- **Light Traffic** – Light traffic can be allowed 24 hours after final coat.

Maintenance

- **Recommendation** – To maintain a high-quality appearance, it is strongly recommended to develop and follow a routine maintenance schedule for all colored concrete.
- **Day-to-Day Cleaning** – QC COLOR CURE, like all surface applications, must be kept clean for maximum durability and protection. For day-to-day cleaning, you can sweep surface or remove dirt by hosing off surface. Frequent sweeping or removal of loose soils will significantly increase the wear-life of QC COLOR CURE or any surface coating.
- **Maintenance Cleaning** – Surface may be scrubbed with a stiff brush. (Do not use metal brush.) Surface may be cleaned with a diluted application of QC FLOOR CLEANER* (a water-based detergent cleaner). Rinse and let dry.
- **Stripping** – When complete removal of QC COLOR CURE from existing concrete is necessary, the product can be removed by using QC SEAL STRIPPER*. (For complete directions, see the Product Information Bulletin for QC SEAL STRIPPER*.)
- **Resealing** – As QC COLOR CURE wears under normal traffic conditions, a fresh coat of the product can be applied. See directions under “Application – Sealing Existing Concrete.”

Limitations

- QC COLOR CURE is slightly transparent, which allows the concrete color to show through—often seen as a benefit to installing architectural concrete. Because of this feature, QC COLOR CURE should only be used on colored concrete. QC COLOR CURE is not meant to be the primary coloring system.
- While QC COLOR CURE conforms to ASTM 2047 for slip resistance, smooth surfaces with QC COLOR CURE may become slippery, especially on surfaces such as pool decks where water collects. QC COLOR CURE should not be used in areas continuously submerged in water or on exterior surfaces without sufficient texture.
- If applying QC COLOR CURE to existing extremely hard-troweled concrete, call QC CONSTRUCTION PRODUCTS for technical assistance.
- It is not recommended to use QC COLOR CURE over existing membranes, nor should the product be applied where coating materials are to be used.
- As a water-based product, QC COLOR CURE may not adhere or it may soften if applied too heavily, if not allowed to dry, or if not applied according to directions.
- It is very important that QC COLOR CURE be allowed to completely dry before temperature drops below 40 F or before contact with water.
- Concrete cured with QC COLOR CURE should not be covered with plastic sheeting or waterproofing paper. If concrete needs further curing after a period of four days, then new, nonwinking, nonstaining, reinforced, kraft-curing paper can be used.
- Finish coats should be applied when concrete and temperatures are between 50-90 F and when temperatures will not fall below 40 F.
- QC COLOR CURE is designed to match the color of fully cured concrete. Freshly placed concrete is darker than fully cured concrete.
- Like all coatings, QC COLOR CURE requires periodic maintenance as well as reapplication.
- Adhesive-backed tape (such as duct tape) left on QC COLOR CURE 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.
- **Curing New Concrete**
 - **Smooth Finish, Per Coat** – Material usage, per coat, is approximately 400-600 square feet per gallon.
 - **Rough or Broom Finish, Per Coat** – Material usage, per coat, is approximately 300-400 square feet per gallon.
- **Sealing Existing Concrete**
 - **Smooth Finish, Per Coat** – Material usage, per coat, is approximately 400-600 square feet per gallon.
 - **Rough or Broom Finish, Per Coat** – Material usage, per coat, is approximately 300-500 square feet per gallon.
 - QC CONSTRUCTION PRODUCTS recommends two coats.

Package Sizes

- 1-gallon unit
- 5-gallon unit
- 55-gallon unit

Technical Data

- Base Color Without tint, product is milk-white and dries clear
- Odor Sweet
- Solids Content 18%
- Flash Point None
- VOC Content Less than 250 grams per liter
- Opacity Medium to high
- Gloss Finish Low
- Thickness Two mils (one mil is 1/1000th of an inch) per coat on a sealed surface; on fresh concrete thickness varies from 1-2 mils (depending on porosity of concrete and curing time)
- Shelf Life Sealed, unopened product is under warranty for one year

Colors

QC COLOR CURE comes in more than 50 standard colors. Custom colors are also available and match custom colors for QC COLOR HARDENER* and QC COLORTECH-E*. Please refer to the respective color charts. Because tints may vary slightly from batch to batch, be sure to order enough tinted QC COLOR CURE to complete a specific job.

Applicable Standards

QC COLOR CURE complies with the following regulations and requirements:

- VOC regulations (less than 250 grams per liter)
- ASTM C 309 and ASTM C 156 for curing fresh concrete
- ASTM D 2047 for slip-resistance requirements

Storage

Keep at 40° F minimum. Do not allow to freeze.

QC CLEAR CURE – Uses and Benefits

- QC CLEAR CURE is an excellent product for curing concrete when applied to the following:
 - Exterior concrete surfaces that will weather naturally
 - Exterior concrete surfaces that will be regularly maintained and recoated
 - Interior concrete surfaces
 - Colored and uncolored concrete
- QC CLEAR CURE is an excellent product for sealing concrete when applied to the following:
 - Exterior concrete surfaces that will weather naturally
 - Exterior concrete surfaces that will be regularly maintained and recoated
 - Colored and uncolored concrete that has been uncoated or stripped
- For finished sealing on existing surfaces, QC CLEAR CURE can be recoated with additional QC CLEAR CURE or QC CEMSEAL*.
- QC CLEAR CURE will not yellow, haze or flake.
- QC CLEAR CURE does not contain petroleum distillates, paraffins or waxes.

Application – Curing New Concrete

1. QC CLEAR CURE is ready to use. Do not dilute.
2. After broom or trowel finishing, apply QC CLEAR CURE when surface moisture has completely disappeared.
3. Apply QC CLEAR CURE, without dilution, by using an airless sprayer or a low-volume pump-up sprayer with a fan tip.
4. **Important:** When applying QC CLEAR CURE, do not allow the product to puddle. Apply QC CLEAR CURE as uniformly as possible, without leaving either spaces or puddles. Thin applications will give better results than one single, heavy application.

Application – Sealing Existing Concrete

1. Surface must be thoroughly cleaned, rinsed and allowed to dry before sealing.
2. When sealing existing concrete with QC CLEAR CURE, test prior to application in an inconspicuous area to ensure compatibility. If in doubt about surface on existing concrete, consult QC CONSTRUCTION PRODUCTS.
3. After cleaning and testing surface, follow application steps listed for “Application – Curing New Concrete.”

Drying Times

- **Note** – Drying times below will vary depending on temperature and humidity.
- **Set to Touch** – Surface can be lightly touched 20-30 minutes after application.
- **Dry** – Surface will dry hard one hour after application.
- **Light Traffic** – Light traffic can be allowed 24 hours after final coat.

Limitations

- While QC CLEAR CURE conforms to ASTM 2047 for slip resistance, surfaces with QC CLEAR CURE may become slippery, especially on surfaces such as pool decks where water collects.
- QC CLEAR CURE should not be used in areas continuously submerged in water or on exterior surfaces without sufficient texture.
- If applying QC CLEAR CURE to existing extremely hard-troweled concrete, call QC CONSTRUCTION PRODUCTS for technical assistance.

*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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QC CONSTRUCTION PRODUCTS

11901 Gavin Rd • Laredo, TX 78045
Customer Service 800.453.8213

www.qcconstructionproducts.com ■ District sales offices and warehouses nationwide

■ It is not recommended to use QC CLEAR CURE over existing membranes, nor should the product be applied where coating materials are to be used.

■ QC CLEAR CURE is not highly resistant to harsh chemicals and should not be used in such applications.

■ As a water-based product, QC CLEAR CURE may not adhere or it may soften if applied too heavily, if not allowed to dry, or if not applied according to directions.

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

■ Concrete cured with QC CLEAR CURE should not be covered with plastic sheeting or waterproofing paper. If concrete needs further curing after a period of four days, then new, nonwrinkled, nonstaining, reinforced, kraft-curing paper can be used.

■ Finish coats should be applied when concrete and temperatures are between 50-90° F and when temperatures will not fall below 40° F.

■ Like all coatings, QC CLEAR CURE requires periodic maintenance as well as reapplication.

■ Adhesive-backed tape (such as duct tape) left on QC CLEAR CURE 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.

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■ Curing New Concrete

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■ Sealing Existing Concrete

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Technical Data

- Base Color Milk-white; dries clear
- Odor Sweet
- Solids Content 30%
- Flash Point None
- VOC Content Less than 250 grams per liter
- Opacity Clear
- Gloss Finish Low to medium
- Thickness Two mils (one mil is 1/1000th of an inch) per coat on a sealed surface; on fresh concrete, thickness varies from 1-2 mils depending on porosity of concrete and curing time
- Shelf Life Sealed, unopened product is under warranty for one year

Applicable Standards

QC CLEAR CURE complies with the following regulations and requirements:

- VOC regulations, including regulations for the state of California. Before use, consult local and state regulations, or contact the Environmental Protection Agency to determine if the product complies with VOC regulations in your area.
- ASTM C 309 and ASTM C 156 for curing fresh concrete.
- ASTM D 2047 for slip-resistance.

Storage

Keep at 40° F minimum. Do not allow to freeze.

Product Handling for QC COLOR CURE and QC CLEAR CURE

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

Warranty for QC COLOR CURE and QC CLEAR CURE

QC COLOR CURE and QC CLEAR CURE, proprietary products, are warranted to be of uniform quality within manufacturing tolerances. Since control is not exercised over use, no warranty, expressed or implied, is made as to the effects of such use. Seller's and manufacturer's obligations 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.

QC CONSTRUCTION PRODUCTS available through: