

# Technical Datasheet

## PrimeCem CureSeal



Water-based, high-solids, non-yellowing cure & seal for concrete

### Description

CureSeal is a VOC compliant, water-based acrylic curing and sealing compound. This product provides a quality cure to freshly placed interior or exterior concrete while assuring total resistance to yellowing from ultraviolet exposure. CureSeal helps control hydration of cement by preventing rapid loss of moisture through the surface of newly placed concrete. It can also be used on existing concrete, giving surfaces a glossy appearance and a protective seal.

### Primary Applications

- Curing and sealing concrete where a non-yellowing, glossy finish is desired

### Advantages

- Very low odor
- Excellent cure and durable seal
- Non-yellowing formula
- Perfect for interior or exterior projects
- Subsequent flooring can be applied directly over product (see Precautions/Limitations section)
- Can contribute to LEED points

### Shelf Life

2 years in original, unopened container

### Technical Information

Typical Engineering Data

The following are typical values obtained under laboratory conditions. Expect reasonable variation under field conditions.

Drying Time	1 hour
Recoat	2 to 4 hours
Foot Traffic	4 to 6 hours
Wheel Traffic	6 to 10 hours

VOC Content	88 g/L
Solids Content (by weight)	25%
Moisture Loss ASTM C156	< 0.40 kg/m <sup>2</sup>

### Appearance

CureSeal is a milky white liquid in the container. After application and drying, CureSeal will slightly darken concrete, and will have a medium to high-gloss finish. A small test area is strongly recommended to confirm appearance prior to beginning full application. Lower concrete temperatures, lower ambient temperatures, higher relative humidity, or a combination of the above will extend drying times.

### Packaging

Packaged in 55 gal (208 L) drums, 5 gal (18.9 L) pails, and in cases of 1 gal (3.8L) jugs (6 jugs per case)

### Specifications / Compliances

- ASTM C1315, Type 1, Class A
- The WELL Building Standard
- ASTM C309, Type 1, Classes A & B
- ANSI/GBI 01, Green Building Assessment Protocol
- AASHTO Specification M148, Type 1, Classes A & B
- USGBC LEED Version 4, ID&C
- Canadian MTQ

### Coverage

<u>Application ft<sup>2</sup>/gal (m<sup>2</sup>/L)</u>	<u>First Coat</u>	<u>Second Coat (Optional)</u>
Curing & Sealing Fresh Concrete	200 to 300 (4.9 to 7.4)	300 to 400 (7.4 to 9.8)
Sealing or Re-sealing Existing/Cured Concrete	300 to 400 (7.4 to 9.8)	400 to 500 (9.8 to 12.3)

**Note:** Coverage rates are approximate. Actual coverage depends on temperature, texture, and substrate porosity. **Avoid excessive build-up of sealer, as this may cause discoloration and/or poor product performance.**

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**Surface Preparation:** For existing concrete, the surface must be clean of any and all surface contaminants, and free of standing water. If applying CureSeal to previously sealed concrete, call Prime Resins to check compatibility. If the chemical makeup of the previous sealer is unknown, a small test section is strongly recommended to check compatibility between CureSeal and the old sealer. When applying CureSeal to freshly poured concrete as a cure & seal, the surface bleed water must be allowed to evaporate prior to applying CureSeal, and the surface must be hard enough as to not be marred during product application.

**Mixing:** Requires no pre-blending prior to use. If use of color or slip-resistant additive is desired, consider a solvent-based cure & seal instead.

**Application:** Apply at the recommended coverage rate using an industrial pump-up sprayer with a high-solids nozzle and a short-nap roller. Apply sealer uniformly to the concrete using sprayer, then lightly backroll the sealer to ensure even coverage. Maintain a “wet edge” while spraying, and backroll over sprayer lap marks for best appearance. CureSeal may be applied by roller alone, but extra care must be taken to ensure that the sealer is applied uniformly, and at the proper coverage rate. Re-distribute any puddles or runs before CureSeal dries. Protect freshly coated surfaces from rain or heavy fog for a minimum of 24 hours after application.

Application of CureSeal too heavily, in too many successive coats, or in multiple coats from re-sealing too frequently can cause failure to dry completely, bubbling, whitening, peeling, flaking, and ultimately, failure of the product. To prevent over-application, it is good practice to measure the area to be sealed and then measure the corresponding volume of product required based on the coverage rate. In addition, applying CureSeal in hot weather/direct sunlight or onto a hot surface can cause bubbling.

**Precautions:** Store indoors, protected from moisture, between 50°F & 90°F (10°C & 32°C). Surface and ambient temperature during coating applications should be between 45°F and 95°F (7°C and 35°C). Material temperatures should be at least 50°F (10°C) and rising. Do not apply to frost-filled or frozen substrates. Do not apply in hot direct sunlight. Do not apply over bleed water or free-standing water. Do not apply if rain or heavy fog is expected within 24 hours of application. Do not thin. Not resistant to gasoline or other automotive fluids. Will enhance color and darken substrates. Excessive build up or puddling of the product during application can lead to failure to dry completely, bubbling, whitening, peeling and/or flaking of the sealer, and discoloration of the concrete. Applying thicker than recommended, applying in cool/cold weather, prolonged exposure to moisture (high humidity, rain), or lack of air flow may result in the sealer remaining soft/wet/tacky for longer than the times found on this data sheet.

When floor covering adhesives will be used following application, a test area is recommended to ensure compatibility of the adhesive. Application of a test area is strongly recommended to confirm final appearance and texture of the product with the end user. In all cases, consult the product SDS before use.

**Clean-up:** Tools and equipment may be cleaned with warm, soapy water immediately following use. Clean drips and overspray with warm, soapy water while still wet. Run warm, soapy water through spray equipment to remove residual materials and prevent clogging of nozzle in future use. If not cleaned immediately, sealer may leave an unwanted residue on painted surfaces, glass, or wood.

**Removal:** Hardened/dried CureSeal may be removed with a strong solvent such as xylene/xylol or MEK (always follow package directions and warning labels). The product can be removed by sand blasting or other mechanical means.

**Health & Safety:** *Safety:* See SDS for safety precautions. Use approved personal protective equipment (PPE), incl. safety glasses, gloves and confined space equipment/ procedures if applicable. Avoid skin contact; do not ingest. For professional use only. *First Aid:* **Eye Contact:** Immediately flush with large amounts of water. Seek medical attention. **Inhalation:** Move to fresh air if symptoms occur. If breathing is difficult, seek medical attention. **Ingestion:** Seek medical attention immediately. **Skin Contact:** Wipe off contaminated area. Wash with soap & water.

**Warranty & Disclaimer:** Prime Resins Inc. warrants their products to be free from manufacturing defects and that products meet the published characteristics when tested in accordance with ASTM and Prime Resins standards. No other warranties by the Manufacturer are expressed or implied, including no warranty of merchantability or fitness for a particular purpose. The Manufacturer will not be liable for damages of any sort resulting from any claimed breach of warranty since it has no control over how the products are used and applied. The Manufacturer’s liability under this warranty is limited to replacement of material or refund of sales price of the material. There are no warranties on any product that has exceeded the “shelf life” or “expiration date” printed on the package label.

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