

Prime Cem Renew

Fiber reinforced concrete resurfacer

Description

Prime Cem Renew is a polymer modified, fiber-reinforced concrete resurfacing mortar. Adding only water, it provides a fresh, aesthetically pleasing appearance to new concrete that has been marred by rain or plastic covering, old or spalled concrete, and salt damaged concrete.

Primary Applications

- Driveways
- Sidewalks
- Pool decks
- Garage floors
- Elevated slabs
- Vertical concrete surfaces

Advantages

- Excellent working time at 70°F (21°C)
- Polymer modified
- Micro-fiber reinforced
- Suitable for freeze-thaw environments
- Open to foot traffic in 4 hours, rubber tire traffic in 12 hours at 75°F (24°C)

Packaging

- 40 lb bags

Technical Information

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

Physical Property	Test Method	Result
Working time	-	30 minutes at 70°F (21°C)
Initial set	ASTM C 266	approx. 1 hour
Final set	ASTM C 266	approx. 2.5 hours
Compressive strength	ASTM C 109	4000 psi (28 MPa) at 28 days

Packaging / Yield

Prime Cem Renew is packaged in 40 lb (18 kg) moisture resistant bags. The yield of is 0.48 ft³ (0.01 m³) per bag. A mixed unit of Prime Cem Renew will cover approximately 92 ft² (8.6 m²) at 1/16" (1.6 mm).

Shelf Life

2 years in original, unopened package

Directions for Use

Surface Preparation: Concrete surfaces must be structurally sound, free of loose or deteriorated concrete and be free of curing and sealing compounds, dust, dirt, paint, efflorescence, oil and all other contaminants. Typically, pressure washing the surface with a commercial pressure washer (3000 psi, 4 GPM) (21MPa, 0.25 L/s) and allowing to fully dry will be sufficient for preparation. In areas of heavy contamination, preparing the concrete through mechanical means is recommended. Abrade the surface to a profile of at least CSP 2, in accordance with ICRI Guide-line 310.2-1997.

Priming: Apply Prime Cem Renew to dry surfaces. Although a primer is typically not needed, if the concrete is very porous a bonding adhesive must be used to prevent pinholes from forming in the Prime Cem Renew. Please refer to the Prime Bond 3500 L Technical Data Sheet for further instructions.

Directions for Use (continued)

Mixing: All materials should be conditioned to the appropriate temperature range of 50°F - 90°F (10°C - 32°C) prior to mixing and placement.

Prime Cem Renew mixes with 4.5 quarts (4.3 L) of clean, potable water for standard overlay applications. Up to an additional pint (0.4 L) can be added when the temperature exceeds 80°F (27°C). For repairing deeper spalls prior to overlaying, Prime Cem Renew can be mixed with 3.5 to 4 quarts (3.3-3.8 L) of water to make a stiff paste suitable for spall repairs. Place 80% of the mixing water into a clean pail. Slowly add the dry Prime Cem Renew powder into the mixing pail. During this time, the material should be mixed with a drill and “jiffy” type mixing paddle. Slowly add the remaining 20% of the mixing water to the pail and mix for 3 minutes to achieve the desired consistency. Place immediately.

Coloring: Prime Cem Renew can be integrally colored. Add the desired liquid or dry colorant to the mixing water and stir until colorant evenly disperses throughout the water. Continue mixing in the Prime Cem Renew as directed. Prime Resins does not warrant any colored application. For even results, it is a best practice to “box” all mixing water that has been colored prior to mixing individual bags of Prime Cem Renew. Colored results vary based on the colorant and amount used.

Placement: Place the mixed Prime Cem Renew onto the concrete in the desired area. For best adhesion to the concrete, use a scrub brush or stiff street broom to scrub the material onto the prepared substrate. Following the initial placement of the material to the concrete, finish as desired, using either a trowel or a broom. The maximum placement depth of Prime Cem Renew is 3/8” (9.5 mm). If multiple lifts are to be applied, score the previous lift after placing; this will provide a great surface to mechanical bond subsequent lifts over. Since Prime Cem Renew is a thinly applied material, surface and air temperatures greatly effect the working time of the material. On hotter days, it is best practice to work in small, controlled areas to avoid cold joints. Use an evaporation retardant to retain moisture in the material and to provide longer finishing time. Working from joint to joint in the base concrete is a good practice. All saw cuts and joints in the base concrete will have to be honored through the Prime Cem Renew material.

Curing and Sealing: Proper curing procedures are important to ensure the durability and quality of the repair. As soon as the material can be walked on without harming the finish, apply a water-based cure and seal compound to the Prime Cem Renew. If you can apply a cure and seal sooner from the sides of the project, then do so.

Precautions/Limitations

- Avoid applying material in direct sun.
- Mixing partial bags will give variable results; always mix full units.
- Use only potable water for mixing.
- DO NOT use this material below 50°F (10°C).
- When using in warm conditions, follow the recommendations in ACI 305R “Guide to Hot Weather Concreting”.
- DO NOT use a solvent-based cure and seal on this product.
- DO NOT use plastic or other covering means to cure Prime Cem Renew, for discoloration will occur.
- Store product in a cool, dry place.
- In all cases, consult the Safety Data Sheet before use

Clean-up

Clean all tools and equipment with water prior to the material hardening. Prime Cem Renew develops a tenacious bond and is difficult to remove after drying.

Health & Safety

Safety: See SDS for complete safety precautions prior to use. 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.