

Technical Datasheet

Prime Coat 4000



Two-component, 100% solids general purpose epoxy coating

Description

Prime Coat 4000 is a two-component, 100% solids, general purpose epoxy coating, especially where chemical and moisture resistance are important. USDA approved. Verified NSF/ANSI Standard 61 compliant for contact with potable water.

Primary Applications

- Bridge piers
- Beam ends
- Potable water storage tanks, cisterns
- Surfaces needing a waterproof coating, e.g. basement floors

Advantages

- NSF/ANSI 61 compliant
- Excellent bond strengths
- Moisture insensitive, waterproof
- Available in red base coat and gray top coat
- No VOCs
- Good chemical resistance

Packaging

- 2 gallon units
- 10 gallon units

Technical information: Physical properties at 73°F (23°C) - Liquid

Properties will vary depending upon site conditions, application method, mixing method and equipment, material temperature, and curing conditions.

Viscosity: 2,300 cps

Pot Life	100 grams	1 gallon mass	20 mils
90°F (32°C)	16 minutes	18 minutes	2 hours, 27 minutes
73°F (23°C)	32 minutes	25 minutes	4 hours
50°F (10°C)	2 hours 26 minutes	1 hour, 12 minutes	18 hours

Test results		
Compressive strength	9,000 psi	ASTM D-695
Compressive modulus of elasticity	2.4×10^5	ASTM D-695
Tensile strength	3,400 psi	ASTM D-638
Tensile modulus of elasticity	2.39×10^5	ASTM D-638
Tensile elongation	2,900	ASTM D-638
Bond strength (dry cure) - 2 day	2,200	ASTM C-882
Bond strength (dry cure) - 14 day	.8%	ASTM C-882
Shore hardness	81	D scale
Water absorption	1%	ASTM D-570
Coverage (20 mils) (2 coats)	160 square feet per gallon (10 mils)	

Accessory Products: HydroLock primer

Directions For Use

- *Mixing Ratio:* A:B 1:1 by volume

Pre mix each component. Measure exactly 1 part "A" to 1 part "B" by volume into a clean pail. Only mix the amount of material that can be used within pot life. Mix epoxy for three minutes using a low speed drill with a mixing paddle (never mix by hand).



Directions For Use (continued)

Scrape sides and bottom of pail while mixing. NOTE: large batches of epoxy will set up much faster than small ones.

Installing Material: Primer: Prime Resins' water based epoxy primer may be applied at a rate of 200 sq. ft./gal. to increase bonding and help eliminate off gassing of Prime Coat 4000.

Coating: Material may be applied by spray, brush or roller. Prime Coat 4000 should be applied at a rate of 160 sq. ft./gal. Two coats are recommended. May be thinned using Xylene at a max rate of one pint per gallon of mixed epoxy. **Flooring:** Pour mixed material onto concrete and pull out to desired millage using a notched squeegee and backroll. Use a spike roller to remove any entrapped air from the coating. Wear shoes with spikes to avoid slipping or damaging the system. Apply second coat after first coat is tack free but within 36 hours. If first coat cures longer than 36 hours, the surface must be roughed up by light brush blasting or sand paper. A "maintenance system" may be installed by using Prime Coat 4000 "Red" for the first coat and "Gray" for the second. When the red begins to show through, it is time to recoat with the gray material. USE ONLY HIGH QUALITY ROLLER COVERS. USE 3/8" MOHAIR NAP (CANDY STRIPE) WITH PHENOLIC CORE.

Material Preparation: Store material overnight to precondition to between 65° and 85°F (18 to 30°C) prior to use. Surface must be clean and free of any dust, oil, grease, laitance, curing compounds, or any other contaminants. This should be achieved by sandblasting, waterblasting, or some other mechanical means.

Limitations: Minimum application temperature is 40°F (4°C) and rising. Minimum age of concrete must be 28 days.

Storage & Clean Up

Storage: Store in dry environment between 40° and 80°F (4.4 - 27°C), ideally between 65° and 75°F (18°-24°C). Temperatures below 60°F (16°C) will cause epoxy to thicken, making it difficult to properly blend components. Shelf Life: 18 months from date of manufacture in unopened containers properly stored.

Clean Up: Clean equipment with MEK or Xylene immediately after use. Clean skin with soap and water. Wash contaminated clothing before re-use.

Environmental Protection

Cured material is environmentally safe. Dispose of in according to appropriate regulations. Clean up any spilled catalyzed liquid material and dispose of according to local, state and federal regulations.

Shipping

Shipping Class: Motor Freight Class 60

Hazard Classification: Non Hazardous

Health & Safety

Safety: For use in well ventilated areas only to keep vapors low. Use OSHA-approved personal protective equipment (PPE), including safety glasses, gloves and confined space equipment/procedures if applicable. Avoid skin contact; do not ingest. See SDS for complete safety precautions. For professional use only. "A" material may cause skin irritation. Contains epoxy resins. "B" material may cause severe burns on skin. Contains amines.

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 and wash with soap and water immediately.

Manufacturing

Products manufactured by Prime Resins, Inc. in U.S.A. under strict quality assurance practices at our Conyers, GA plant.

Warranty & Disclaimer

Prime Resins, Inc. warrants its 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 Prime Resins, Inc. are expressed or implied, including no warranty of merchantability or fitness for a particular purpose. Prime Resins, Inc. will not be liable for damages of any sort resulting from any claimed breach of warranty. Prime Resins' 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.