

DURAPRIME 50 Water Based Epoxy Primer

09670

FLUID-APPLIED FLOORING
FINISHES

TAMMS INDUSTRIES
JANUARY 2000
(Replaces 5/99)

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- DESCRIPTION:** DURAPRIME 50 is a two component, waterbased, epoxy penetrating primer which is supplied at about 32% solids. It is recommended for use as a primer with various Dural topcoats, waterbased epoxies, 100% solids epoxies, and urethane coatings. It has excellent adhesion to damp concrete, is fast drying, and has low odor making it useful for several industrial applications. DURAPRIME 50 is nonflammable and has a very low VOC of less than 1.9 lbs./gal.
- USES:** May be used as a primer for coating concrete floors in schools, warehouses, laboratories, hospitals, clean rooms, etc. It can be used to prime concrete block, walls, bridge abutments, parapets, and barriers which are top coated with waterbased epoxy, 100% solids epoxy coatings, or light stable urethanes. Specific application techniques, as recommended, make this a versatile primer.
- ADVANTAGES:**
 - Can be used on damp concrete
 - Fast drying, yet has long pot life
 - Very low odor - excellent for indoor/outdoor use
 - Nonflammable - VOC compliant
 - Reduces concrete porosity and outgassing
- PHYSICAL PROPERTIES - 77°F @ 50% RH**

Mixed viscosity	3-400 cps
Dry to touch	2-4 hrs.
Pot life	6-8 hrs.
VOC mixed	1.85 lbs./gal.
Mixed solids (as supplied)	32%
Values presented are typical and are not necessarily referenced to create specifications.	
- SURFACE PREPARATION:** New concrete must have cured for at least 21-28 days. For old concrete, remove weak, contaminated, or deteriorated concrete. If patching is needed, ensure compatibility between patching mortar and DURAPRIME 50. Honeycombs, bugholes, and shallow repairs may be repaired by using a block filler. Both old and new concrete must be structurally sound, clean, free of dust, grease, laitance, oil, old coatings, or other contaminants. Wet or dry abrasiveblasting or shotblasting to scarify and clean the concrete substrate is preferred. Acid etching with 15% hydrochloric acid may be done, but ensure removal of salts by adequate flushing with water. A pH check after acid washing is highly recommended. Following surface preparation, the cleaned surface must pull concrete when tested with a pull tester or an Elcometer.
- MIXING INSTRUCTIONS:** Premix DURAPRIME 50 Part A and Part B separately using a Jiffy mixer at slow speed. Then add the entire contents of Part A to the Part B container. Mix using a Jiffy mixer at slow speed (50-100 rpm) for at least 3 minutes, scraping the sides of the container and paddle blades at least once. Do not aerate while mixing. Allow the mixed, milky looking, product an induction period of about 20 minutes at 75°F, which also allows for the air to release from the mix.
- APPLICATION TECHNIQUES:** Apply DURAPRIME 50 by brush, squeegee, or spray to clean concrete at a coverage rate of 200-400 sq.ft./gal. The initially milky coating will dry to a clear coating. Higher film builds may cause blistering, entrap water, especially under adverse conditions and impart a yellow cast to the film. The top coat can be applied typically within 2-4 hrs., depending on ambient conditions and concrete porosity. When top coating with moisture sensitive materials like Aquathane (aliphatic urethane) ensure that the film is set to touch and free of any moisture.
- COVERAGE:** Bare concrete (300-400) or concrete block (200-350) sq.ft./gal. On a coated surface 350-450 sq.ft./gal., coverage rates will vary depending upon porosity and profile of the concrete.
- PACKAGING:** Available in kit sizes of 1.625 gallons (2 units of 0.81 gal each) and 4.5 gallons. **Storage:** Store at 40-90°F. Prevent from freezing. Shelf life - 1 year in proper storage.
- CLEAN-UP INSTRUCTIONS:** Clean up tools and application equipment with water or a blend of butyl cellosolve and water immediately after use. Clean up drips and over-sprays with water while still wet. Dried primer requires mechanical abrasion for removal.
- CAUTIONS:** DURAPRIME 50 is not intended as a finished coating. Do not apply to frost filled concrete or at temperatures below 50°F or under very high humidity (>90%). DURAPRIME 50, if applied at higher film builds may cause blistering and a yellowish cast to the film. DURAPRIME 50 will darken the concrete surface to give a "wet look" appearance.

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11. ENVIRONMENTAL AND SAFETY PRECAUTIONS: **Component "A":** Contains epoxy resin. Vapors can cause respiratory irritation. Skin and eye irritant. Can cause sensitization after prolonged or repeated exposure. Use of safety goggles and chemical resistant gloves is recommended. Use only with adequate ventilation. **Component "B":** Irritant, sensitizer. Contains solvents which may cause moderate skin or eye injury. Solvents are reported to be associated with central nervous damage after repeated and prolonged use. Safety goggles and neoprene gloves are recommended. Use only with adequate ventilation. **First Aid:** In case of skin contact, wash immediately and thoroughly with soap and water. For eye contact, flush immediately with plenty of water for at least 15 minutes. Consult physician immediately. For respiratory problems, remove person to fresh air. **Disposal:** Collect with absorbent material. Dispose of in accordance with current local, state and federal regulations. READ MATERIAL SAFETY DATA SHEET BEFORE USING. FOR INDUSTRIAL USE ONLY. **KEEP AWAY FROM CHILDREN AND ANIMALS.** EMERGENCY RESPONSE: 1-800-424-9300 CHEMTREC. 1-800-862-2667 TAMMS.

12. TECHNICAL SERVICE: For application procedures or surface conditions not specified above, please contact:
TAMMS INDUSTRIES
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Kirkland, IL 60146
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