TECHNICAL DATA SHEET

DURAL® EPOXY PRIMER

100% Solids Epoxy Primer for Urethane Membrane Systems

1. **DESCRIPTION:** DURAL EPOXY PRIMER is a two component, 100% solids, epoxy penetrating primer. It is recommended for use as a primer with various Dural topcoats, water-based epoxies, 100% solids epoxies, and urethane coatings. It is fast drying and has low odor making it useful for several industrial applications. DURAL EPOXY PRIMER is nonflammable and contains no VOC's.

2. **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.

MATERIAL PROPERTIES @ 75°F – 50% RH

Mix ratio (A:B by vol.)	1:1
Mixed viscosity, cps	300-400
Gel time (100 gms.), mins.	30-40
Pot life, 2 gal. mix, mins. 10-20	10-20
Mixed solids % by wt.	100
Tack free time, hrs.	3-4

Values presented are typical and not necessarily referenced to create specifications.

3. **SURFACE PREPARATION:** Concrete must be structurally sound, dry, free of grease, oils, coatings, dust, curing compounds and other contaminants. Surface laitance must be removed. The preferred method of surface preparation is abrasive blasting or shotblasting. Remove oil, grease smear and asphalt residue with trisodium phosphate or a strong detergent. For oil contaminated surfaces, use steam cleaning in conjunction with a strong emulsifying detergent. Rinse thoroughly with potable water. After cleaning, remove defective concrete, honeycombs, cavities, joint cracks, voids and other defects by routing to sound material. Smooth precast and formed concrete surfaces must be cleaned, roughened and made absorptive by abrasive blasting or shotblasting. If it is not possible to sandblast or shotblast, acid etch with a 15% Hydrochloric acid solution. After etching pressure wash or flush the surface with copious amounts of water to neutralize the surface. Care must be taken to ensure that all salts and residue from the reaction have been removed. The pH of the surface should be checked, as per ASTM D4262, following acid etching. Following surface preparation, the cleaned surface should pull concrete when tested with an Elcometer or similar pull tester (ASTM D4541). Before application of the coating, use the "Visqueen test" (ASTM D4263) to evaluate moisture level in concrete.
New Concrete: Allow to cure for a minimum of 28 days. (Consult TAMMS Technical Service if earlier times are required.) Remove any surface hardener or curing compounds by using the recommended mechanical methods for surface preparation. Prepare surface as recommended above. **Old Concrete:** For quick, small patching use suitable epoxy mortar. For larger areas, use cementitious patching materials which are compatible with the system. After patching, a light brush blast is recommended prior to coating. (Consult TAMMS Technical Service for appropriate patching materials). **Steel:** All oils, greases, dirt, old coatings or chemical contaminants must be removed. All welds should be continuous and ground to remove all splatter, sharp edges, laps and other surface irregularities. All steel surfaces should be blasted to a "NEAR WHITE" metal finish using clean dry blasting media.

4. **MIXING INSTRUCTIONS:** Use clean containers and clean mixers for mixing DURAL EPOXY PRIMER. Using a low speed "Jiffy" type mixer, mix the A & B components separately for approximately 1 minute. Then combine one part by volume Part "A" with one part by volume Part "B". Mix the components together thoroughly for 3-5 minutes. Scrape the bottom and sides of mixing container at least once. Do not aerate the mix. Mix only enough material that can be used within the working life.

5. **APPLICATION TECHNIQUES:** The ambient and surface temperature should be between 50-90°F. DURAL EPOXY PRIMER can be applied using a short nap roller, squeegee, brush, or an airless spray. Top coat materials can be applied as soon as the DURAL EPOXY PRIMER has become tack free, typically within 3-4 hours at 75°F, but no later than 24 hours after primer application.

6. **COVERAGE:** DURAL EPOXY PRIMER will cover approximately 200-250 square feet per gallon. Product coverage rates are approximate and for estimating purposes only. Surface temperature, porosity, and texture will determine actual material quantities.

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7. **CLEAN-UP INSTRUCTIONS:** Clean tools and equipment immediately after use with Xylene or Aromatic 100. Clean up spills or drips while still wet with the same solvents. Dried product will require mechanical abrasion for removal.

8. **PACKAGING:** DURAL EPOXY PRIMER is available in 4 gallon cases.

   Storage: 50-90°F; protect from moisture and freezing.

   Shelf life: Two years in original container and properly stored.

9. **CAUTIONS:** DURAL EPOXY PRIMER is not intended as a finished coating. Do not apply to frost filled concrete or at temperatures below 50ºF. If applied at higher film builds may cause a yellowish cast to the film.

10. **ENVIRONMENTAL SAFETY: PART A:** Contains epoxy resin. Vapors can cause respiratory irritation. Skin and eye irritant. Can cause sensitization after prolonged or repeated exposure. Use of impermeable gloves and safety goggles is recommended. Use with adequate ventilation. **PART B: Is CORROSIVE.** Contains amines. Contact with eyes or skin may cause severe burns. Can cause sensitization after prolonged or repeated use. Use of safety goggles and impermeable gloves is recommended. Use with adequate ventilation.
    FIRST AID: In case of skin contact, wash immediately with water and soap. For eye contact, flush immediately with plenty of water for at least 15 minutes and consult physician immediately. For respiratory problems, move person to fresh air and seek medical attention if needed.
    DISPOSAL: Collect with absorbent material. Dispose of in accordance with local, state, and federal regulations.
    READ MATERIAL SAFETY DATA SHEET BEFORE USING. FOR INDUSTRIAL USE ONLY. **KEEP AWAY FROM CHILDREN AND ANIMALS.** EMERGENCY RESPONSE: 1-800-862-2667 (TAMMS) 1-800-424-9300 (CHEMTREC).

11. **TECHNICAL SERVICE:** For application procedures or surface conditions not specified above, please contact:

TAMMS INDUSTRIES
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