



TECHNICAL DATA SHEET

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TAMMSDECK SYSTEM Waterproofing Deck Coating

DESCRIPTION: The TAMMSDECK System is an elastomeric deck coating for pedestrian and rubber tire traffic. The system consists of a two part epoxy primer, a one component aromatic urethane membrane, and a one component, sand filled, aliphatic urethane topcoat.

FEATURES AND BENEFITS:

- **Lightweight, anti-skid surface – ideal for deck resurfacing**
- **Impervious to water**
- **One component membrane and topcoat**
- **Easy application**
- **Superior durability**
- **Abrasion resistance**
- **Strong bond to concrete**
- **Flexible over wide temperature range**
- **Outstanding weathering characteristics**

APPLICATIONS:

- **Balconies**
- **Mechanical rooms**
- **Parking decks**
- **Plazas**
- **Stadiums**
- **Promenades**
- **Floors**
- **Stairs**
- **Landings**

COLORS: TAMMSDECK System color is determined by the color of TAMMSDECK TOPCOAT. The standard color is a Light Gray. Special colors are available with minimum quantity orders and special pricing.

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. 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. The pH of the surface should be checked as per

MATERIAL PROPERTIES @ 75° F -50% RH

	<u>DEP Primer</u>	<u>Membrane</u>	<u>Topcoat</u>
Mixed viscosity, cps	300-400	1000-3000	1500-3000
Gel time, (100 gms.), min.	30-40		
Pot life, (2 gal), min.	20-30	60-120	60-120
Solids, % by wt.	100	86	78
Tack free time, hrs.	3-4	10-12	18
Tensile strength, psi (ASTM D412)	NA	800	2800
Tensile elongation, % (ASTM D412)	NA	450	100
Tear strength, pli (ASTM D412)	NA	60	>250
Abrasion resistance CS 17 Wheel, 1000 gms			0.010

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 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 compatible with the system such as SPEED CRETE 2028. After patching, a light brush blast is recommended prior to coating. (Consult TAMMS Technical Service for appropriate patching materials)

APPLICATION TECHNIQUES: DURAL EPOXY PRIMER application: Using a low speed "Jiffy" type mixer, mix the A & B components separately for approximately 2-3 minutes. Then mix the components together for 3-5 minutes, scraping the bottom and sides of the mixing container at least once. Do not aerate the mix. Apply to the prepared surface using a short nap roller, brush, or an airless spray.

TAMMSDECK MEMBRANE application: Mix the one component TAMMSDECK MEMBRANE for 3-5 minutes and apply using a roller or notched squeegee. Application can take place as soon as the primer becomes tack free (typically 3-4 hours) but no longer than 24 hours after application of the primer. **TAMMSDECK TOPCOAT application:** Mix the one component TAMMSDECK TOPCOAT for 3-5 minutes and apply using a short nap roller, brush or spray. The TOPCOAT should be applied after the TAMMSDECK MEMBRANE has become tack free, approximately 10-12 hours, and no longer than 36 hours after the membrane becomes tack free. Immediately after applying the topcoat broadcast a 20-30 mesh silica sand into the wet topcoat and backroll to evenly distribute and completely encapsulate the sand.

COVERAGE: For Typical Pedestrian Overlay

<u>Product</u>	<u>sq. ft./gal.</u>
DURAL EPOXY PRIMER	225-250
TAMMSDECK Membrane	60-70
TAMMSDECK Topcoat	90-100
20-30 Silica Sand (lbs/ sq. ft.)	0.25-0.75

A dry film thickness (DFT) of 20 mils of TAMMSDECK MEMBRANE is recommended for most applications. TAMMSDECK MEMBRANE at a coverage rate of 65 sq.ft./gal yields 20 mils DFT. Coverage rates can vary due to surface texture, porosity, aggregate selected for anti-slip surface and temperature.

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.

PACKAGING: DURAL EPOXY PRIMER is available in 4 gallon cases. TAMMSDECK MEMBRANE and TAMMSDECK TOPCOAT are available in one and five gallon containers.

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

SHELF LIFE: One year for DURAL EPOXY PRIMER; six months for TAMMSDECK MEMBRANE and TAMMSDECK TOPCOAT in original containers and properly stored.

CAUTIONS: TAMMSDECK SYSTEM should be applied to dry concrete and at ambient temperature of 50°F and rising. All of the material in a container should be used after opening. Components of TAMMSDECK SYSTEM cannot be re-sealed and re-used after opening.

ENVIRONMENTAL SAFETY: DURAL EPOXY PRIMER Part A contains epoxy resins. Vapors can cause respiratory irritation. This product is a skin and eye irritant and can cause sensitization after prolonged or repeated exposure. Use with impermeable gloves, safety goggles, and adequate ventilation. EPOXY PRIMER Part B contains amines and is CORROSIVE. Contact with eyes or skin may cause severe burns. Can cause sensitization after prolonged or repeated use. Use with safety goggles, impermeable gloves and adequate ventilation. TAMMSDECK MEMBRANE and TAMMSDECK TOPCOAT contain solvents. Repeated exposure to solvents can cause skin/throat irritation or neurotoxic effects. Avoid inhalation or contact with skin or eyes. Can cause sensitization after prolonged or repeated use. Use with safety goggles, impermeable gloves and 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.

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

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