



TECHNICAL DATA SHEET

DURALTEX®

Versatile Epoxy Flooring Binder

09670

FLUID-APPLIED FLOORING FINISHES

TAMMS INDUSTRIES
MAY 2005 (Replaces 2/03)

1. **DESCRIPTION:** DURALTEX is a 100% solids, two component epoxy binder.

FEATURES AND BENEFITS:

- *Versatile – Coatings, Broadcast Floors, Chip Floors, Slurry/Broadcast and Trowel-down*
- *User Friendly*
- *Low Odor – 100% Solids*
- *Anti-Microbial*
- *USDA Compliant*
- *Chemical Resistant*
- *Low Modulus*

APPLICATIONS:

- *Warehouse and Garage Floors*
- *Manufacturing Plants, Workshops*
- *Educational Facilities and Hospitals*
- *Production Rooms and Loading Docks*
- *Kitchens, Lavatories and Showers*

2. **COLORS:** DURALTEX is available in Clear, Light Gray, Dark Gray and Tile Red. Custom colors are available, subject to minimum quantity orders.

3. **SURFACE PREPARATION:** New concrete should be allowed to cure for a minimum of 28 days. The 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. Remove defective concrete, honeycombs, cavities and other defects by routing to sound material. If patching is required, consult TAMMS Technical Service for appropriate patching materials. After patching, a light brush blast is recommended prior to coating. The pH of the surface should be checked as per ASTM D4262. Following surface preparation, the cleaned surface should have a minimum surface tensile strength of 200 psi when tested with an Elcometer or similar pull tester (ASTM D4541). Before application of the coating, use the “Visqueen test” (ASTM D4263) or “Calcium Chloride Test” (ASTM F1869) to evaluate the moisture level in the concrete. Do not proceed if a moisture vapor drive condition exists. Moisture vapor emission rate may vary over time depending upon environmental conditions. All steel surfaces should be blasted in accordance with SSPC-SP10 or NACE #2 to a “NEAR WHITE” finish using clean dry blasting media.

MATERIAL PROPERTIES @ 75°F

Mix Ratio (by Volume)	2:1
V.O.C.	0 g/l
Gel Time, 200 gms, minutes	35-45
Pot Life, 3 gals, minutes	15-25
Tack Free, hrs.	4-5
Hardness, Shore D	85-90
ASTM D2240	
Tensile Strength, psi	5,500-6,500
ASTM D638	
Tensile Elongation, %	15-30
ASTM D638	
Compressive Strength, neat resin, psi	
ASTM D695	
@ 24 hrs.	7,500
@ 7 days	9,800
Bond Strength	Greater than Concrete
ASTM D4541	
Flammability	Self Extinguishing
ASTM D635	0.75 Max.
Water Absorption, 24 hrs	<0.5%
ASTM D570	
Resistance to Mold Growth Rating:	10
ASTM D3273	No Growth
Resistance to Bacteria Growth	No Growth
ASTM G22	
Monolithic Surfacing	Passes
ASTM C722	
Abrasion Resistance, CS-17	32 mg
ASTM D4060	

Data presented are typical values obtained under laboratory conditions.

4. **MIXING INSTRUCTIONS:** Pre-mix Part A and Part B, then combine 2 parts by volume of Part A with one part by volume of Part B and thoroughly mix using a low speed drill motor and a “Jiffy” type mixer. Mix only the amount of material that can be applied during the pot life. Do not aerate the mix.

5. **APPLICATION TECHNIQUES:** See “DURALTEX Application Bulletin”, available from Customer Service.

6. **COVERAGE:** DURALTEX coverage rates are approximate and for estimating purposes only. Surface temperature, porosity, texture and thickness will determine actual material requirements.

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<u>Duraltex System</u>	<u>Sq.Ft./Gal</u>
Floor Coating (20 – 30 mils)	
Primer, Duraltex Clear (optional)	200-225
Basecoat	100
Seal Coat (optional)	150
Broadcast Floor (Broom & Seed) (1/16"-1/8")	
Primer, Duraltex Clear (optional)	200-225
Basecoat	
Duraltex	100
Aggregate, lbs/ft ²	0.5-1.0
Sealcoat of Duraltex	100-150
or Dural 1004C	200-250
Broadcast Vinyl Chip Floor (1/32" - 1/16")	
Primer, Duraltex Clear (optional)	200-225
Basecoat	75 -120
Vinyl Chip, lbs/ft ²	0.25 – 0.5
Sealcoat	
Duraltex Clear	150
or Dural 1004C Clear	250
Slurry Application (1/16" – 1/4")	
Primer, Duraltex Clear	200-225
Basecoat (1 gal resin & 12 # aggregate)	20
Seal Coat	
Duraltex	150
or Dural 1004C	250
Trowel Down (1/8" – 1/4")	
Primer, Duraltex Clear	200-225
Basecoat @ 1/8"	40-45
(approx. 1 gal. resin to 40# trowel grade aggregate)	
Seal Coat	
Duraltex	100-150
or Dural 1004C	200- 250

It is advisable to apply a test area to ensure proper application technique, adhesion and aesthetics.

7. **CAUTIONS:** Do not aerate during mixing. Do not mix or apply unless surface, air and material temperatures are 50°F and rising. Do not apply if surface temperature is within 5°F of the dew point in the work area. Do not store DURALTEX at temperatures below 50°F or above 90°F. Cure new concrete 28 days before application. Do not apply to slabs on grade unless a heavy uninterrupted vapor barrier has been installed under the slab. Do not apply DURALTEX if the floor is subject to moisture vapor drive or hydrostatic pressure. For applications which require color stability, DURAL 1004C, an aliphatic urethane, should be used as a topcoat. DURALTEX will yellow upon prolonged exposure to sunlight or high intensity artificial lights.
8. **PACKAGING:** 3, 15 and 150 gallon units. **Storage:** 50-90°F; protected from moisture and freezing. Shelf life: Two years in original container and properly stored.

9. **ENVIRONMENTAL /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": 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 chemical resistant gloves is highly 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.

Industrial Use Only. Keep away from heat, sparks, and open flame. Keep Out of Reach of Children. Consult Material Safety Data Sheet for complete product safety information. EMERGENCY RESPONSE: 1-800-424-9300 (CHEMTREC), 1-800-862-2667 (TAMMS)

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

Tamms Industries
3835 State Route 72, Kirkland, IL 60146
800-862-2667, FAX: 815-522-2323
www.tamms.com

11. **WARRANTY:** Seller warrants that its products do not infringe upon any copyright, patent, trademark, or trade secret nor violate the proprietary information rights of any third party. Seller warrants that its products will conform to and perform in accordance with the product's specifications. THE FOREGOING WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED INCLUDING BUT NOT LIMITED TO THOSE CONCERNING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Because of the difficulty of ascertaining and measuring damages hereunder, it is agreed that except for claims for bodily injury, the seller's liability to the buyer or any other third party for any losses or damages, whether direct or otherwise, arising out of the purchase of the product from the seller by the buyer shall not exceed total amount billed and billable to the buyer for the product. **IN NO EVENT WILL THE SELLER BE LIABLE FOR ANY LOSS OF PROFITS OR OTHER SPECIAL OR CONSEQUENTIAL DAMAGES, EVEN IF SELLER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.**