TECHNICAL DATA SHEET

DURALTEX UV

Aliphatic Epoxy Floor Binder

DESCRIPTION: DURALTEX UV is a high gloss, moisture insensitive, 100% solids, two component aliphatic epoxy floor binder. It exhibits reduced tendency to yellow compared to traditional aromatic epoxy systems.

FEATURES AND BENEFITS:

- ***Reduced tendency to yellow***
- ***Aliphatic epoxy resin***
- ***Clear coat for decorative aggregate floors***
- ***Versatile – Coating, Broadcast Floors, Chip Floors, and Slurry/Broadcast***
- ***User Friendly***
- ***Low Odor - 100% Solids***
- ***USDA Compliant***
- ***Chemical Resistant***
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APPLICATIONS:

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

MATERIAL PROPERTIES @ 75° F.

Mix Ratio (by Volume)	2:1
Gel Time, minutes	45-55
Tack Free, hrs.	4-5
Hardness, Shore D, ASTM D2240	85-90
Tensile Strength, ASTM D638, psi	4,500-5,500
Tensile Elongation, ASTM D638, %	15-25
Compressive Strength, neat resin, ASTM D695, psi	
@ 24 hrs.	8,000
@ 7 days	10,000
Bond Strength	Greater than Concrete
Water Absorption, ASTM D570,24 hrs, %	<0.5

COLORS: Clear, Light Gray, and Tan .

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. After cleaning, remove defective concrete, honeycombs, cavities, joint crack 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 shot blasting. If it is not possible to abrasive or shot blast, 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. New concrete should be allowed to cure for a minimum of 28 days prior to applying DURALTEX UV. Remove any surface hardener or curing compound, by abrasive blasting. Following surface preparation, the cleaned surface should have a minimum surface tensile strength of 250 psi when tested with an Elcometer or similar pull tester (ASTM D4541). Before application of the coating, use the "Visqueen test" (ASTM D4263) to evaluate the moisture level in the concrete. To repair small patches in old concrete, use a suitable epoxy mortar. For larger areas, use cementitious patching materials which are compatible with the DURALTEX UV. Consult TAMMS Technical Service for appropriate patching materials. After patching, a light brush blast is recommended prior to coating . When coating steel, all oils, greases, dirt, old coatings or chemical contaminants must be removed prior to applying DURALTEX UV. All welds should be continuous and ground to remove all splatter, sharp edges, laps and other surface irregularities. For Intermittent Contact/Atmospheric Service, all steel surfaces should be blasted in accordance with SSPC-SP10 or NACE #2 to a "NEAR WHITE" metal finish using clean dry blasting media.

MIXING INSTRUCTIONS: Using a low speed drill motor and a "Jiffy" type mixer, mix the A & B components separately for approximately 1 minute. Combine two parts by volume of "A" with one part by volume of "B" and mix thoroughly. Scrape the bottom and sides of mixing container, at least once. Mix just enough material that can be used within the working life. Do not aerate the mix.

APPLICATION TECHNIQUES: Broom & Seed System: Apply DURALTEX UV to the clean substrate, using a brush, shortnap (1/8"') roller or spray equipment. While the material is still wet, broadcast clean, dry aggregate (typically 20/40 silica sand or color quartz at the rate of 1-1.5 lbs/sq ft., and allow to cure overnight. Sweep or vacuum excess aggregate. Repeat the above steps until desired thickness is achieved. Apply a sealcoat of either DURALTEX UV or DURAL 1004C aliphatic urethane.
Trowel-On System: Apply a prime coat of DURALTEX UV using a squeegee, brush or spray equipment. Lightly broadcast 20/40 silica sand (1/4 lbs/sq ft.). Allow the prime coat to tack, typically 2-4 hours. Screed the properly mixed DURALTEX UV mortar to the desired thickness, trowel finish and allow to cure for 12-18 hours. Apply a seal coat following the procedures outlined in the broom & seed methods.

COVERAGE: The DURALTEX UV coverage rates are approximate, and for estimating purposes only. Surface

temperature, porosity, texture, and thickness will determine actual material requirements.

Broom & Seed System	**Sq.Ft./Gal**
DURALTEX UV	75-100
Aggregate	1-1.5 lbs/sq.ft.
Sealcoat of DURALTEX UV	75-150
Or Dural 1004C	150-200

CAUTIONS: Do not aerate during mixing. Do not mix or apply unless surface, air, and material temperatures are 50°F and rising. Concrete may be damp but must be free of any standing water. Do not apply if surface temperature is within 5°F of the dew point in the work area. Do not store DURALTEX UV at temperatures below 50°F or above 90°F. Cure new concrete 28 days before application. Do not use in outdoor applications. Certain types of floor mats may cause the Duraltex UV to discolor.

CLEAN-UP INSTRUCTIONS: Clean tools and application equipment immediately after use with methyl ethyl ketone or xylene. Clean spills or drips while still wet with same solvent. If cured DURALTEX UV will require mechanical abrasion for removal.

PACKAGING: DURALTEX UV is available in 3 gallon or 15 gallon units.

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

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

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": 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 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 and animals. Consult Material Safety Data Sheet for complete product safety information. EMERGENCY RESPONSE: 1-800-424-9300 (CHEMTREC), 1-800-862-2667 (TAMMS)

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

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

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