COATINGS - DECORATIVE FLOOR

Master Format #: 09 96 56

DURALTEX

VERSATILE, CHEMICALLY RESISTANT EPOXY FLOOR COATING

EUCLID CHEMICAL

PACKAGING

Clear & Standard Colors

150 gal (567.8 L) unit
Code: TD43052150§

15 gal (56.8 L) unit
Code: TD4305215§

3 gal (11.4 L) pail
Code: TD4305203§

Special Colors, MTO

3 gal (11.4 L) pail
Code: TD4305203§

CLEAN UP

Clean tools and application equipment immediately with acetone, xylene, or MEK. Clean spills or drips with the same solvents while still wet. Hardened DURALTEX will require mechanical abrasion for removal.

SHELF LIFE

2 years in original, properly stored, unopened package

DESCRIPTION

DURALTEX is a two-component, cycloaliphatic amine-based, seamless epoxy flooring binder designed to be used for a variety of flooring applications and methods.

PRODUCT CHARACTERISTICS

FEATURES/BENEFITS

- Versatile – neat coatings, broadcast floors, chipfloors, slurry, broadcast and trowel down
- User friendly
- Water spot resistant
- Chemically resistant
- Low modulus
- Low odor – 100% solids
- Blush resistant

PRIMARY APPLICATIONS

- Warehouse and garage floors
- Manufacturing plants, workshops
- Educational facilities and hospitals
- Kitchens, lavatories and showers
- Metallic effect floors
- Vinyl chip floors

APPEARANCE

DURALTEX is available in White, Clear, Tan, Light Gray, Concrete Gray, Medium Gray, Dark Gray, Black, and Tile Red.

COVERAGE

Neat Coating 20 – 30 mils thick	**Coverage - ft²/gal (m²/L)**
Duraltex (clear): prime coat	200 to 225 (4.9 to 5.5)
Duraltex: 1st coat	100 (2.5)
Duraltex: 2nd coat	150 (3.7)

Aggregate Broadcast Coating 1/16" - 1/8" (1.6 to 3.2 mm) thick	**Coverage- ft²/gal (m²/L)**
Duraltex (clear): 1st coat	100 (2.5)
Broadcast aggregate to refusal	0.5 to 1.0 lbs/ft² (2.4 to 4.9 kg/m²)
Seal coat: (select one)	
Duraltex	100 to 150 (2.5 to 3.7)
Eucothane	200 to 250 (4.9 to 6.1)
Euco Tammoshield	300 to 400 (7.4 to 9.8)

Trowel Down Coating 1/8" - 1/4" (3.2 to 6.4 mm) thick	**Coverage - ft²/gal (m²/L)**
Duraltex (clear): prime coat	200 to 225 (4.9 to 5.5)
Trowel coat 1/8" (3.2 mm) thick (mortar):	
40 lbs (18 kg) silica sand 20/40 mesh & 1 gal (3.8 L) Duraltex	40 to 45 (0.98 to 1.1)
Seal coat: (select one)	
Duraltex	100 to 150 (2.5 to 3.7)
Eucothane	200 to 250 (4.9 to 6.1)
Euco Tammoshield	300 to 400 (7.4 to 9.8)

Note: Coverage rates are approximate. Actual coverage depends on temperature, texture, and substrate porosity.

TECHNICAL INFORMATION

The following are typical values obtained under laboratory conditions. Expect reasonable variation under field conditions.
*Material properties @ 75°F (24°C)

Test Method	Test Property	Values
ASTM D4060	Abrasion Resistance	32 mg loss
ASTM D4541	Bond Strength	Greater than concrete
ASTM D695	Compressive Strength	Neat resin, psi (MPa), 24 hrs . . . . . .7,500 (51.7) Neat resin, psi (MPa), 7 days 9,800 (67.6)
N/A	Dynamic Coefficient of Friction	Test sample application rate: Base - Duraltex Lt. Gray 100 ft²/gal (2.5 m²/L), 20/40 sand broadcast @ 1 lb/ft² (4.9 kg/m²) Seal coat - Duraltex Lt. Gray 100 ft²/gal (2.5 m²/L) Wet . . . . . .0.56 Dry 0.70
N/A	Dynamic Coefficient of Friction	Test sample application rate: Base - Duraltex Lt. Gray 100 ft²/gal (2.5 m²/L), 20/40 sand broadcast @ 1 lb/ft² (4.9 kg/m²) Seal coat - Tamoshield Lt Gray 300 ft²/gal (7.4 m²/L) Wet . . . . . .0.56 Dry 0.65
ASTM D635	Flammability	Self extinguishing . . . . . 0.75 Max
N/A	Gel Time, 200 grams	35 to 50 minutes
ASTM D2240	Hardness, Shore D	85 to 90
N/A	Mix Ratio (by volume)	2:1
ASTM C722	Monolithic Surfacing	Passes
N/A	Pot Life, 3 gal (11.4 L)	15 to 30 minutes
ASTM G22	Resistance to Bacterial Growth	No growth
ASTM D3273	Resistance to Mold Growth, Rating 10	No growth
N/A	Tack Free	4 to 5 hours
ASTM C307	Tensile Strength, 14 days	1,800 psi (12.4 MPa)
ASTM D638	Tensile Strength	4,000 psi to 6,000 psi (27.6 MPa to 41.4 MPa)
ASTM D638	Tensile Elongation	15 to 30%
N/A	VOC Content	46 g/L
ASTM D570	Water Absorption, 24 hours	0.15%

DIRECTIONS FOR USE

Surface Preparation: The surface must be structurally sound, clean and free of grease, oil, curing compounds, soil, dust and other contaminants. See note in "Precautions/Limitations" section if coating is to be placed over old/existing epoxy or urethane coatings. New concrete and masonry must be at least 28 days old. Surface laitance must be removed. Concrete surfaces must be roughened and made absorptive, preferably by mechanical means, and then thoroughly cleaned of all dust and debris. If the surface was prepared by chemical means (acid etching), a water/baking soda or water/ammonia mixture, followed by a clean water rinse, must be used for cleaning, in order to neutralize the substrate. The Concrete Surface Profile (CSP) should be equal to CSP 2-3 in accordance with Guideline 310.2R-2013, published by the International Concrete Repair Institute (ICRI). Allow substrate to dry before coating application. Following surface preparation, the strength of the surface can be tested if quantitative results are required by project specifications. An elcometer or similar tensile pull tester may be used in accordance with ASTM C1583, and the tensile pull-off strength should be at least 250 psi (1.7 MPa).

Do not apply epoxy or urethane coatings if there is excessive moisture in the concrete, or if the moisture vapor emission rate (MVER) is high. Before application of DURALTEX, perform either of these tests: **ASTM F2170** - Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using In-Situ Probes, or **ASTM F1869** - Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride. If the relative humidity is 85% or greater, or the MVER is 3 lbs/1,000 ft^2/24 hrs or greater, use a moisture mitigation system such as Dural Aquatight 100 PLUS or Dural Aquatight WB. After surface preparation and moisture testing, a test section application is recommended to confirm good adhesion and compatibility of the coating with the surface, and to confirm appearance and aesthetics.

When coating steel, all contamination should be removed and the steel surface prepared to a "near white" finish (SSPC SP10) using clean, dry blasting media.

Mixing: Mix DURALTEX using a low-speed drill and a mixing paddle. Pre-mix Part A and Part B separately for approximately 1 minute each. Combine Part A and Part B in a 2:1 ratio by volume, then mix thoroughly for 3 to 5 minutes. Scrape the bottom and sides of the containers at least once during mixing. Do not scrape bottom or sides of the container once mixing operations have ceased; doing so may result in unmixed resin or hardener being applied to the substrate. Unmixed resin or hardener will not cure properly. Do not aerate the material during mixing. To keep aeration to a minimum, the recommended mixing paddles are #P1 or #P2 as found in ICRI Guideline 320.5R-2014.

Application: See the "Epoxy & Urethane Coatings Application Guide" for installation means and methods. Note that any coverage rates or mixing ratios for epoxy or epoxy-aggregate combinations found in the "Epoxy & Urethane Coatings Application Guide" are approximations, and are for general reference only. For product-specific coverage rates and mixing ratios, refer to this technical data sheet.

PRECAUTIONS/LIMITATIONS

- Store DURALTEX indoors, protected from moisture, at temperatures between 50 °F and 90 °F (10 °C and 32 °C)
- Surface and ambient temperature during coating applications should be between 50 °F and 90 °F (10 °C and 32 °C)
- Material temperatures should be at least 50 °F (10 °C) and rising
- Do not apply DURALTEX if surface temperature is within 5 °F (3 °C) of the dew point in the work area
- Working time and cure time will decrease as the temperature increases, and will increase as the temperature decreases
- Do not thin DURALTEX
- When a vapor barrier is utilized in on-grade applications of DURALTEX, it must be installed directly under the slab
- Although DURALTEX is chemically resistant, surface staining of the coating may occur after contact with some chemicals. Consider the use of a urethane topcoat such as EUCOTHANE for improved stain resistance.
- DURALTEX will discolor upon prolonged exposure to ultraviolet light and high-intensity artificial lighting. An aliphatic urethane topcoat such as EUCOTHANE can minimize these effects.
- Depending on the condition of the substrate, minor surface defects can appear in the coating when applied. Proper surface prep, patching of substrate imperfections, and priming will ensure a better overall finish.
- If coating over old/existing epoxy or urethane coatings, or if more than 24 hours elapses between coats: sand the previous coat, wipe clean, and proceed with coating operations. If old/existing coatings are peeling, flaking, etc., all unsound material must be removed prior to new coating applications.
- Application of a test area is recommended to confirm final appearance and texture of the system with the end user
- In all cases, consult the product Safety Data Sheet before use

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