COATINGS - DECORATIVE FLOOR

Master Format #: 09 96 56

DURALTEX UV

UV-RESISTANT, ALIPHATIC EPOXY FLOOR COATING

EUCLID CHEMICAL

PACKAGING

Clear & Standard Colors

3 gal (11.4 L) pail

Code: TD4307203§CK

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 UV will require mechanical abrasion for removal.

SHELF LIFE

2 years in original, properly stored, unopened package

DESCRIPTION

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

PRODUCT CHARACTERISTICS

FEATURES/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
- Chemically resistant

PRIMARY APPLICATIONS

- Warehouse and garage floors
- Manufacturing plants, workshops
- Educational facilities and hospitals
- Production rooms and loading docks
- Kitchens, lavatories and showers

APPEARANCE

DURALTEX UV is available in clear and light gray.

COVERAGE

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

Aggregate Broadcast Coating, 1/8" - 1/4" thick	**Coverage - ft²/gal (m²/L)**
Duraltex UV (clear): 1st coat	75 to 100 (1.8 to 2.5)
Broadcast aggregate to refusal	1.0 to 1.5 lbs/ft² (4.9 to 7.3 kg/m²)
Seal coat: (select one - minimum)	
Duraltex UV	75 to 100 (1.8 to 2.5)
Eucothane	150 to 200 (3.7 to 4.9)

Trowel Down Coating 1/8" - 1/4" thick	**Coverage - ft²/gal (m²/L)**
Duraltex UV (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 UV	40 to 45 (0.98 to 1.1)
Seal coat: (select one- minimum)	
Duraltex UV	100 to 150 (2.5 to 3.7)
Eucothane	200 to 250 (4.9 to 6.1)

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 C1583	Bond Strength	Greater than concrete
ASTM D695	Compressive Strength	Neat resin, 24 hrs . . . . . 8,000 psi (51.7 MPa) Neat resin, 7 days . . . . . 10,000 psi (67.6 MPa)
N/A	Gel Time	45 to 55 minutes
ASTM D2240	Hardness, Shore D	85 to 90
N/A	Mix Ratio (by volume)	2:1
N/A	Tack Free	4 to 5 hours
ASTM D638	Tensile Elongation	15 to 25%
ASTM D638	Tensile Strength	4,500 psi to 5,500 psi (31.0 MPa to 37.9 MPa)
ASTM D570	Water Absorption, 24 hours	<0.5%

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 rinsing, 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 UV, 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/1000 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 UV 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.

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PRECAUTIONS/LIMITATIONS

- Store DURALTEX UV 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 UV 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 UV
- When a vapor barrier is utilized in on-grade applications of DURALTEX UV, it must be installed directly under the slab
- Although DURALTEX UV 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 UV 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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