

DURALTEX®

VERSATILE EPOXY FLOORING BINDER

DESCRIPTION

DURALTEX is a 100% solids, two component epoxy binder.

PRIMARY APPLICATIONS

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

FEATURES/BENEFITS

- Versatile – coatings, broadcast floors, chipfloors, slurry/broadcast and trowel-down
- User friendly
- Low odor – 100% solids
- Anti-microbial
- Chemical resistant
- Low modulus
- ▲ Can contribute to LEED points.

TECHNICAL INFORMATION

Material Properties @ 75°F (24°C)

Mix Ratio (by Volume)..... 2:1

VOC Content 0 g/l

Gel Time, 200 gms, minutes 35 to 45

Pot Life, 3 gals (11.4 L), minutes 15 to 25

Tack Free, hrs. 4 to 5

Hardness, Shore D ASTM D 2240 85 to 90

Tensile Strength, ASTM D 2240

psi (MPa) 5,500 to 6,500 (37.9 to 44.8)

Tensile Elongation, ASTM D 638 % 15 to 30

Compressive Strength, ASTM D 695

neat resin, psi (MPa) @ 24 hrs. 7,500 (51.7)

@ 7 days 9,800 (67.6)

Bond Strength ASTM D 4541... Greater than Concrete

Flammability ASTM D 635

Self Extinguishing 0.75 Max.

Water Absorption, ASTM D 570

24 hrs. <0.5%

Resistance to Mold Growth Rating: 10

ASTM D 3273..... No Growth

Resistance to Bacteria Growth

ASTM G 22 No Growth

Monolithic Surfacing ASTM C 722..... Passes

Abrasion Resistance, CS-17 ASTM D 4060.32 mg

Appearance: Clear, Light Gray, Dark Gray and Tile Red. Custom colors are available, subject to minimum quantity orders.

Data presented are typical values obtained under laboratory conditions.

PACKAGING

DURALTEX is packaged in 3 gal (11.4 L), 15 gal (56.8 L) and 150 gal (567.8 L) units.

SHELF LIFE

2 years in original, unopened package.

SPECIFICATIONS/COMPLIANCES

- USDA compliant



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COVERAGE

Duraltex System	ft ² /gal (m ² /L)
Floor Coating (20 to 30 mils)	
Primer, Duraltex Clear (optional)	200 to 225 (4.91 to 5.52)
Basecoat	100 (2.45)
Seal Coat (optional)	150 (3.68)
Broadcast Floor (Broom & Seed) (1/16" to 1/8") (1.6 to 3.2 mm)	
Primer, Duraltex Clear (optional)	200 to 225 (4.91 to 5.52)
Basecoat	
Duraltex	100 (2.45)
Aggregate, lbs/ft ² (kg/m ²)	0.5 to 1.0 (.23 to .45)
Sealcoat of Duraltex or Dural 1004C	100 to 150 (2.45 to 3.68) 200 to 250 (4.91 to 6.14)
Broadcast Vinyl Chip Floor (1/32" to 1/16") (.79 to 1.6 mm)	
Primer, Duraltex Clear (optional)	200 to 225 (4.91 to 5.52)
Basecoat	75 to 120 (1.72 to 2.94)
Vinyl Chip, lbs/ft ² (kg/m ²)	0.25 to 0.5 (.11 to .23)
Sealcoat	
Duraltex Clear	150 (3.68)
or Dural 1004C Clear	250 (6.14)

Slurry Application (1/16" to 1/4") (1.6 to 6.4 mm)	
Primer, Duraltex Clear	200 to 225 (4.91 to 5.52)
Basecoat (1 gal resin & 12 # aggregate)	20
Seal Coat	
Duraltex	150 (3.68)
or Dural 1004C	250 (6.14)
Trowel Down (1/8" to 1/4") (3.2 to 6.4 mm)	
Primer, Duraltex Clear	200 to 225 (4.91 to 5.52)
Basecoat @ 1/8"	40 to 45
(approx. 1 gal resin to 40# trowel grade aggregate)	
Seal Coat	
Duraltex	100 to 150 (2.45 to 3.68)
or Dural 1004C	200 to 250 (4.91 to 6.14)

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

Note: Coverage rates are approximate and for estimating purposes only. Surface temperature, porosity, texture and thickness will determine actual material requirements.

DIRECTIONS FOR USE

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 EUCLID 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 D 4262. Following surface preparation, the cleaned surface should have a minimum surface tensile strength of 200 psi (1.4 MPa) when tested with an Elcometer or similar pull tester (ASTM D 4541). Before application of the coating, use the "Visqueen test" (ASTM D 4263) or "Calcium Chloride Test" (ASTM F 1869) 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.

Mixing: 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.

CLEAN-UP

Clean tools and application equipment immediately after use with methyl ethyl ketone or xylol. Clean spills or drips while still wet with solvent. Dried DURALTEX will require mechanical abrasion for removal.

PRECAUTIONS/LIMITATIONS

- Store at temperatures between 50°F to 90°F (10°C to 32°C).
- Protect from moisture and freezing.
- Do not aerate during mixing.
- Do not mix or apply unless surface, air and material temperatures are 50°F (10°C) and rising.
- Do not apply if surface temperature is within 5°F (-15°C) of the dew point in the work area.
- Do not store DURALTEX at temperatures below 50°F or above 90°F (10°C to 32°C).
- 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.
- In all cases, consult the Material Safety Data Sheet before use.

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