



# WaterBased Durothane

Decorative Concrete Coating Products

### PRODUCT DESCRIPTION:

Waterbased Durothane is a chemical resistant two-component water-based aliphatic urethane coating having exceptional resistance to most chemicals and excellent anti-soil properties. Odor-free, high gloss coating for areas where solvent odor is a problem.

### RECOMMENDED USES:

Use as a decorative and protective finish coat for metal, wood, and concrete in severe industrial, marine and process environments. Very good in environments exposed to acids, alkalis, salts and solvents. Recommended in heavy industrial and marine atmospheres where long maintenance free life is required. Use as a sealer (clear) to protect and provide depth of gloss for coated transportation equipment. Especially useful on floors such as aircraft hangers, service bays, and warehouse floors where light reflectance, chemical and abrasion resistance are required. Because of Waterbased Durothane's high crosslink density and non-toxic cured state it is an acceptable coating for food and beverage process plants and hospital facilities.

<b>Physicals</b>	Volume Solids	45.95%
	Weight Solids	50.00
	VOC	0.10 lbs./gal.
	Weight/Gal.	9 lbs
	Temp. Res.	250°F
	Taber Abrasion	42 mg. loss
	Impact D/R	160/160 in. lbs.
	Pendulum Hardness	143 Seconds
<b>Color/Gloss</b>	Color	Clear
	Sheen	High Gloss

### Application

Recommended Thickness(min.)	1.9 mils dry, 4.3 mils wet
Theoretical Coverage	1.9 mils DFT 355 sq. ft.
Method	Brush, roller, spray
Induction Time	15 minutes**
Work-life	.5 – 2 hours
Thinner	Water

\*\*At temperatures about 85°F and high humidity, induction time not required. Mix thoroughly and reduce with approx. 5% water and apply immediatel

<b>Drying Time (hrs)</b>	50°F	75°F	90°F
* to touch	4	2	1
* to handle	8	4	2
* to recoat (max.)	12*	8*	6*
* @ 50% relative humidity, higher humidity will require shorter recoat times.			
<b>Unit Size</b>	1 Gallon Unit	5 Gallon Unit	
Part A	1 Gallon (short filled)	5 Gallon (short filled)	
Part B	1 Quart (short filled)	2 Gallon (short filled)	

**Storage:**

Shelf Life. One year minimum from mfg date.

**Limitations:**

Apply in good weather when air and surface temperatures are above 40°F. For optimum application properties, bring material to 70-80°F temperature range prior to mixing and application.

**Surface Preparation:**

Paint only clean dry surfaces. Remove all grease, oil, dirt or other foreign matter by solvent or detergent washing.

**Unpainted Surfaces:**

Prepare surface and prime, seal, fill or otherwise coat.

**Previously Painted Surfaces:**

Remove all rust, rust scale, other corrosion products, loose or heavy chalk and loose or scaling paint by “Hand or Power Tool Cleaning.” “Sand or Brush Blast” any glossy areas until dull. Spot prime bare areas as recommended. To check compatibility apply coating to respective area of at least 25 sq. ft. and allow to cure and age several weeks. Then inspect for adhesion failure, wrinkling, lifting, blistering or any other sign of incompatibility present. Coating with Waterbased Durothane can then proceed.

**Concrete:**

- (1) “Brush-Blast Cleaning can be used to prepare the concrete by removing all foreign matter and provide tooth for bonding. Remove all dust from surface before starting the application of the coating.
- (2) “Acid-Etching” All surfaces shall be acid etched with Muriatic Acid solution (1 part acid to 4 parts water). Apply solution by brush or spray until surface is thoroughly wetted. When bubbling ceases (5-10 minutes), wash down surface with fresh water and scrub with a stiff brush. Rinse with plenty of fresh water. If surface is acidic (ph below 7) neutralize surface by washing with 1-2% ammonia solution.

**Mixing:**

Material is supplied in 2 containers as a unit. Always mix a complete unit in the proportions supplied. Combine entire contents of Part B with Part A and mix thoroughly with a power agitator.

**Thinning:**

Thin with water immediately after mixing. Approximately 5% required.

**Application:**

Apply by brush, roller, or spray. Apply at 4-5 mils wet.

**Work Stoppages:**

Do not allow material to remain in hoses. Release pressure from pressure tank and disconnect material hose. Thoroughly flush hose and spray gun with water. Do not seal any unused material. CO2 will generate, creating pressure in the container.

**Cleanup:**

Clean all equipment immediately after use with water. Spray equipment requires flushing with either of these solvents. It is good working practice to periodically flush out spray equipment during the course of the working day. Frequency should depend upon amount sprayed, temperature, elapsed time including delay, etc.