

# DURA-LASTIC™

Elastomeric Waterproofing Membrane



**DURA-SYSTEMS**

## PRODUCT INFORMATION DATA SHEET

### PRODUCT DESCRIPTION:

**DURA-LASTIC** membrane is a high solids, water inducted, low V.O.C. environmentally safe, liquid applied, urethane elastomeric waterproofing membrane that can be used either indoors or outdoors.

It will bond permanently to properly prepared and primed concrete, wood, aluminum, steel, fiberglass and most all other standard building materials.

It will not blister, crack, peel, or delaminate from exposure to extremes of ambient heat or cold as low as -50°F to 200°F. It will withstand extreme Hydrostatic Pressure.

### FEATURES:

- Excellent Weatherability
- Solvent Free
- Low Oder
- Environmentally Safe
- Abrasion resistant
- Can dry tack free in five minutes by accelerating
- Resistant to oils, solvents, caustics and acids
- May be subject to rain or snow without affecting it's curing
- Bonds to itself, new to old with proper surface prep.
- Completely Water-Proof

### RECOMMENDED USES:

- Flooring
- Parking Structures
- Concrete Waterproofing
- Animal pins
- Metal Roofs
- Protective Coating
- Secondary Containment.
- Expansion joints
- Crack repair and filling
- Tank Coating and Repair
- Manhole & sewer linings

### PACKAGING:

- Gallon's
- Five's
- Drum's
- Tote's

### STANDARD COLOR:

- Gray
- Custom colors available

### TECHNICAL DATA:

- Tensile strength 3200 psi
- 600%-700% elongation
- Weight solids 93%
- Coverage varies
- Non-flammable, Non-combustible
- Viscosity 2000 +/- 600 cps
- Shelf Life – Months
- Temperature Service Range - 50°to 200°F

### DRYING SCHEDULE:77°F@50%RH

- Tack Free: 4 hours

### MIXING RATIO:

Product should be catalyzed by adding 15-25% water by volume. When you add catalyzing water you also increase the yield of the product by that amount. If filler materials, such as sand or rubber are added for sloping, filling or coving purposes the product yield will also increase.

### GEL ADDITIVE:

DURA-LASTIC GEL is an additive for DURA-LASTIC to change it's viscosity from a self leveling thin liquid to a gun or knife grade consistency for patching and crack filling. When using DURA-LASTIC GEL it acts as the catalyst and it is not necessary to add water. Add DURA-LASTIC GEL to DURA-LASTIC until desired thickness is achieved. (not less than 4:1 never more than 2:1 DURA-LASTIC to DURA-LASTIC GEL)

### POTLIFE:77°F@50%RH

- 45 minutes

### APPLICATION INFORMATION:

DURA-LASTIC membrane can be brushed, rolled or squeegeed. DURA-LASTIC that has been thickened with DURA-LASTIC GEL can be tooled with a trowel or packed into a caulk gun.

#### Brush:

Brushes should be of good quality synthetic nylon/polyester blend or natural fiber china bristle.

#### Roller Cover:

Cover's should be of good quality and have phenolic epoxy resin core with a ½ inch to ¾ inch woven nap.

#### Squeegee:

Squeegees should be of good quality and have a steel or hard plastic frame with a rubber wipe. A twenty four inch frame is preferable.

#### Trowel:

Trowel should be of good quality.

#### Caulk gun:

Caulk gun should be of good quality.

Note: Poor quality applicators have a tendency to lose their fibers into the coating application resulting in an unsightly and/or poor finish quality.

### CLEAN UP:

Clean tools and equipment immediately after use with an environmentally safe solvent, as permitted under local regulations.

Always follow appropriate safety recommendations when using any solvent.

### WASTE DISPOSAL:

Any liquid material that is not saved should be disposed of by mixing the material with catalyzing water and disposed of as an inert solid.

# DURA LASTIC™

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**SPECIFICATIONS:**

**GENERAL SURFACE PREPARATION:** Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust and contaminants to ensure proper adhesion.

**ALUMINUM (UNTREATED):** Follow general surface preparation; minimum recommended surface preparation: SSPS-SP1. Prime first with proper DURA-SYSTEM primer.

**GALVANIZED STEEL (UNTREATED):** Follow General surface preparation; minimum SSPC-SP1. Allow to weather for 6 months prior to painting. If weathering is not possible, first solvent clean per SSPS-SP1 and apply a test patch. Allow coating to cure 7 days before adhesion testing. If adhesion is poor, brush blast per SSPC-SP7 to remove treatments. Rusty galvanizing requires hand tool cleaning SSPC-SP2, power tool cleaning SSPC-SP3, and/or water blasting NACE STD, RP-01-72 to remove all loose corrosion, followed by solvent cleaning SSPC-SP1 as needed to remove all grease, oil and contaminants.

**PVC, FIBERGLASS:** Follow general surface preparation and solvent cleaning per SSPC-SP1. Scuff sand to abrade surface. Test adhesion.

**STEEL OR IRON:** For maximum performance: Near white blast cleaning per SSPC-SP10. Minimum surface preparation: Follow general surface preparation and as needed hand tool cleaning SSPC-SP2. Remove all oil, grease, contaminants by solvent cleaning per SSPC-SP1.

**WOOD:** Follow general surface preparation and scuff sand to abrade and open surface.

**NEW POURED CONCRETE:** For surface preparation, refer to SSPC-SP13/NACE 6. Surfaces must be clean, dry, structurally sound and offer sufficient profile to achieve adequate adhesion. Minimum substrate cure is 28 days at 75°F. remove all form release agents, curing compounds, salts, efflorescence, laitance, and other foreign matter by sandblasting, shotblasting, mechanical scarification, or suitable chemical means such as muriatic acid etch, refer to ASTM D4260. Rinse thoroughly to achieve a final pH between 6.0 and 10.0. Allow to dry thoroughly prior to coating.

**PREVIOUSLY POURED CONCRETE:** Surface preparation is done in much the same manner as new concrete; however, if the concrete is contaminated with oils, grease, chemicals, etc., they must be removed by cleaning with a strong detergent. Refer to ASTM D4258. Form release agents, hardeners, etc. must be removed by abrasive blasting, shot blasting, mechanical scarification, or suitable chemical means. If surface deterioration presents an unacceptably rough surface, an application of Dura-Lastic is recommended to resurface damaged concrete. Fill all cracks, voids and bug holes with mixture of 2 parts DURA-LASTIC and 1 part DURA-LASTIC GEL.

**PREVIOUSLY PAINTED SURFACES:** If in sound condition, clean the surface of all foreign material. Smooth, hard or glossy coatings and surfaces should be dulled by abrading the surface. Apply a test area, allowing paint to dry one week before testing adhesion. If adhesion is poor, additional abrasion of the surface and/or removal of the previous coating may be necessary. Retest surface for adhesion. If paint is peeling or badly weathered, clean surface to sound substrate and treat as a new surface as above.

**WATERPROOFING SYSTEM REQUIREMENTS:** All surfaces must be first primed with proper DURA-SYSTEM Primer.

**WARNINGS**

This product may contain aromatic solvent and toluene diisocyanate. Vapor and spray mist are harmful, and may cause lung irritation, allergic reaction and irritation to skin and eyes. Use only with adequate ventilation, do not breathe vapor or spray mist. Do not get in eyes or on skin. Individuals with chronic respiratory problems or prior respiratory reaction to isocyanates must not be exposed to vapors or spray mist. Keep out of the reach of children and do not take internally. Contains Toluene Diisocyanate 2.4 isomer (CAS 584-84-9) & Toluene Diisocyanate 2.6 isomer (CAS 91-07-7) NOTE: Laboratory animals fed TDI in corn oil developed cancer. See Material Safety Data Sheet for full information.

**SAFETY PRECAUTIONS**

If affected by inhalation of vapor or spray mist, remove to fresh air. If breathing difficulty persists or occurs later, consult a physician and have label information available. In case of eye contact, flush immediately with plenty of water for 15 minutes and call a physician. In case of skin contact, wash thoroughly with soap and water. If redness, itching or burning develops, seek medical attention. If affected by inhalation of vapor or spray mist, remove to fresh air. If breathing difficulty persists or occurs later, consult a physician and have label information available. In case of eye contact, flush immediately with plenty of water for 15 minutes and call a physician. In case of skin contact, wash thoroughly with soap and water. If redness, itching or burning sensation develops, obtain medical attention. Refer to MSDS sheets before use.

Hardness	ASTM-2240	Shore A 65+/-5
Shelf Life		12 Months
Flash Point		None
Abrasion Resistance	ASTM D-421	Taber Abrasion H-18 wheel, 1000 cycles - no significant effect
Tear Resistance	ASTM-624 Die C	130 pli
Tensile Strength	ASTM D-412	3200 psi
Adhesive Strength	ASTM D-903	175 pli
Negative Hydrostatic Vacuum	ASTM C-1244	5 min @ 12 in. (when combined with 1/6" application of Dura-Lastic / Dura-Lastic GEL mixture reinforcement)
Negative Hydrostatic Air Pressure	ASTM C-1244	5 min @ 12 in. (when combined with 1/6" application of Dura-Lastic / Dura-Lastic GEL mixture reinforcement)
VOC	ASTM D-2369	0.7 lb/gal