

DURA FLEX™ SF

SOLVENT FREE PROTECTIVE COATING



DURA-SYSTEMS

PRODUCT INFORMATION DATA SHEET

PRODUCT DESCRIPTION:

DURA-FLEX SF coating is a two component, solvent free, liquid applied, aromatic, hybrid, polyurethane protective coating.

It is an anti-corrosion & waterproofing coating that can be used either indoors or outdoors. Our coating will bond permanently to properly prepared 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 and cold or Hydrostatic Pressure.

FEATURES:

- Good Weatherability
- Low Odor
- Environmentally Safe
- Seamless Monolithic Membrane
- Completely Waterproof
- Highly abrasive resistant
- Resistant to oils, solvents, caustics & acids. (Call for recommendation.)
- High solids
- High spread rate
- May be subjected to rain, snow, or extreme cold without affecting it's curing
- Will withstand extreme environments
- Bonds to itself, new-to-old, with proper surface preparation or priming.

RECOMMENDED USES:

- Flooring
- Parking Structures
- Concrete Waterproofing
- Animal pens
- Applies Directly to Rusty Metal
- Metal Roofs
- Universal primer for hydrostatic pressure
- Radon Mitigation
- Sea Walls
- Secondary Containment
- Marine
- Tank Coating & Repair
- Manhole and sewer linings

PACKAGING:

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

STANDARD COLORS:

- Sidewalk Gray
- Monterey Sand
- Black
- Custom colors available

TECHNICAL DATA:

- 2050 psi tensile strength
- 590% elongation
- Volume Solids 89.5%
- Coverage of 240 sq. ft. per Gallon @ 6.8 ± 2 mils
- Viscosity 5000 ± 1500 cps
- Package Life – 12 Months
- VOC's 0.97 lbs / gal

DRYING SCHEDULE:(77°F@50% RH)

- To Touch: 1.5 hours
- Tack Free: 4 hours
- Recoat: 16-48 hours
- Foot Traffic: 24-48 hours
- Vehicular Traffic: 72-96 Hours
- Below 60°F applications may require acceleration.

STANDARD MIXING RATIO:

16 parts DURA-FLEX SF coating
1 part Accelerator/Catalyst*
*(pre-measured packet or bottles)

ACCELERATED DRYING:

(77°F@50% RH)

Add 6.4 ounce's of additional solvent free accelerator per gallon. Pot life and shelf life are drastically reduced. Only double accelerate what will be used immediately.

- To Touch: 45 minutes
- Tack Free: 1.5 hours
- Recoat: 4 hours

POT LIFE:77°F@50%RH

Catalyzed & accelerated: 24 hours
Catalyzed & double accelerated:6 hours

APPLICATION INFORMATION:

This product can be sprayed, brushed, rolled or squeegeed

Spray Equipment:

Air Assisted Airless

Air Pressure.....10-30 psi
Fluid Pressure....800-1200 psi
Tip..... .055

Airless

Pressure2800-3200 psi
Tip..... .011-.015

Conventional

Air Pressure.....40-50 psi
Fluid Pressure....15-25 psi
Cap/Tip..... .055

Electrostatic

When spraying electrostatically, DURA-FLEX SF should be reduced with a keytone to increase conductivity.

Roller Cover

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

Brush

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

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.

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

CLEAN UP:

Clean tools and equipment immediately after use with an environmentally safe solvent, as permitted under local regulations. Follow appropriate safety recommendations when using any solvent.

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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. Self-Priming.

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. Self-Priming.

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

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. Self-Priming

WOOD: Follow general surface preparation and scuff sand to abrade and open surface. Self-Priming

NEW POURED CONCRETE: For surface preparation, refer to SSPC-SP13/NACE 6. Surfaces must be clean, dry, 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 abrasive blasting, 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 9.0. Allow to dry thoroughly prior to coating. Self-Priming

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., it 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 parts 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.

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.

HYDROTECH

Hydrotech Coating Systems

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Hardness		Shore A 80+/-5
Shelf Life		12 Months
Flash Point		None
Specific Gravity		1.20
Tear Resistance	ASTM-624 Die C	370 pli
Tensile Strength	ASTM D-412	2050 psi
Adhesive Strength	ASTM D-903	400 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 @ 10 lbs (when combined with 1/6" application of Dura-Lastic / Dura-Lastic GEL mixture reinforcement)
VOC	ASTM D-2369	0.97 lbs/gal