

Crack Filling and Caulking Instructions

PRODUCT INFORMATION DATA SHEET

PRODUCT DESCRIPTION:

DURA-Lastic sealant is a two component, high solids, low V.O.C. environmentally safe, gun or knife grade, urethane, elastomeric for either indoor or outdoor use. It will bond permanently to properly primed and prepared concrete, wood, aluminum, steel, and some plastics, as well as 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. It will withstand extreme Hydrostatic Pressure.

FEATURES:

- Excellent Weatherability
- Solvent Free
- Low Odor
- Environmentally Safe
- Abrasion resistant
- 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:

- Concrete Repair
- Parking Decks & Ramps
- Pavement
- Warehouses
- Expansion Joints
- Secondary Containment
- Crack repair and filling
- USDA Food and beverage

THICKENING ADDITIVE:

Dura-Lastic GEL is an additive for Dura-Lastic to change the viscosity from a thin self leveling liquid to a gun or knife grade consistency. For patching, crack and joint filling.

CRACK FILLING INSTALLATION:

After the cracks and joints meet the surface preparation guidelines proceed as follows:

1. If the crack or joint is large enough to take a backer rod, place the backer rod to a depth to allow filling at twice the width as the depth.
2. Prime all surfaces receiving sealant with Dura-Flex or Dura-Flex SF. See *product data sheet for coverage, mixing, drying, and recoat schedule.*
3. Mix DURA-Lastic and Dura-Lastic GEL to desired thickness based upon use (never less than 4:1 and never more than 2:1).
4. To minimize contamination of adjacent surfaces, apply masking tape and remove before sealant has begun to set up.
5. To extend performance and esthetics, a finish coat of DURA-FLEX or DURA-FLEX UV (depending upon exposure) can be applied.

YIELD:

Linear Feet Per Gallon Caulking
Joint Depth

Inches	1/4	3/8	1/2	5/8	3/4	7/8	1
1/4	308	205	154	122			
3/8			82	68	58	51	
1/2					51	44	38

Gallons of Crack Filler per 100 Lineal Feet
Crack Depth

Inches	1/4	3/8	1/2	5/8	3/4	7/8	1
1/4	0.3	0.5	0.6	0.8	1.0	1.1	1.3
3/8	0.5	0.7	1.0	1.2	1.5	1.7	1.9
1/2	0.6	1.0	1.3	1.6	1.9	2.3	2.6

MIXING:

DURA-Lastic (used as a caulking / repair / joint sealant) is mixed at minimum 4 parts of Dura-Lastic to 1 part Dura-Lastic GEL or a maximum of 2 parts Dura-Lastic to 1 part Dura-Lastic GEL. Mixing at a 4:1 or 3:1 ratio will achieve a semi to a self-leveling compound. Mixing at 2:1 will create a knife grade consistency.

Use a slow speed drill and mixing paddle. The blade should be kept below the surface to avoid whipping air into the mixture. Mix until all contents are thoroughly blended and one uniform color. During the process, scrape the side and bottom of the container several times.

WORKING TIME: @77° 50% RH

Working time depends upon material and ambient temperature. See *technical data sheet.* For cold temperature applications the addition of a fast cure catalyst can be used for faster recoat.

45 minutes depending upon temperature and fast cure catalyst use.

DRYING SCHEDULE: @77° 50% RH

Dry solid - 4 hours
Foot traffic - 24 hours
Full service - 48 hours

Note: Once DURA-FLEX primer is dry, immediately apply Dura-Lastic / Dura-Lastic GEL mixture.

SURFACE PREPARATION:

It is essential that surfaces be clean, dry, porous, in sound condition, fully cured, and free of all contaminants, bond breakers, paints, dust, dirt, grease, oils, form release, and curing compounds.

New Concrete:

Removal all loose material from joints / cracks by wire brushing or other mechanical methods. Abrasive blast surfaces in contact with form-release agents. Fresh concrete must be fully cured. Laitance must be removed by abrading or acid etching.

Old Concrete:

Remove all old caulking material by mechanical means to expose bare concrete for primers to properly penetrate. Before priming make sure the surface is free from all contaminants.

Precautions:

- Always add Dura-Lastic GEL to Dura-Lastic. Residue of unmixed Dura-Lastic GEL can prevent adhesion of the mixture.
- Make sure all products are stored before use, mixed, and applied at 75°F to 90°F. Cold product will be more difficult to obtain recommended spread rate.

TECHNICAL SERVICES:

Silvertree representatives / distributors are available to assist you in selecting an appropriate product and to provide on-site application instructions or safety precautions, or to conduct jobsite inspections. For further assistance call our technology service department at 1-260-426-2474.

WATERPROOFING SYSTEM REQUIREMENTS:

All surfaces must be first primed with Dura-Flex or Dura-Flex SF.

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.

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TYPICAL PHYSICAL PROPERTIES @ 77°F (25°C), 50% RH

Hardness	ASTM-2240	Shore A 65+/-5
Shelf Life		12 Months
Flash Point		None
Abrasion Resistance	ASTM D-421	H-18 Wheel, 1000 cycles, No Effect
Tear Resistance	ASTM-624 Die C	168pli
Tensile Strength	ASTM D-412	1450psi
Adhesive Strength	ASTM D-903	170pli
Negative Hydrostatic Vacuum	ASTM C-1244	5 min @ 12 lbs (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	0.7 lb/gal