

**BASIC INSTRUCTIONS**  
**Dura-System – Dura-Flex SF, Dura-Lastic, Dura-Lastic GEL**

**BASIC INSTALLATION IS AS SIMPLE AS 1-2-3**

1. Prime with Dura-Flex SF (roller & brush)
2. Mix and Apply Dura-Lastic and Dura-Lastic GEL mixture "sealing bead" completely filling all cracks & joints including the wall/floor junction. (using a putty knife & brush)
3. Apply finish of Dura-Flex SF (using a roller &/or brush)

This 3-step process assures that every crack, hole, joint and crevice is permanently sealed the first time for the last time!

Installation time will vary from less than one day, to several days depending on the condition and dryness of the surface.

**Additional tools & materials suggested:**

- One or two 3" or 4" wide paint brushes
- One or two heavy duty, long nap paint roller covers
- Three or four matching **high quality** roller covers (prevents the roller from shedding during application)
- Several heavy duty paint rollers with heavy steel handles
- At least one quart of approved solvent, xylene or acetone, and rags for clean-up  
(ALWAYS ALLOW PLENTY OF FLOW-THROUGH CROSS VENTILATION WHEN USING SOLVENTS IN AN ENCLOSED SPACE AND/OR USE CARBON FILTER MASK.)
- Large fan or blower for proper flow-through outdoor ventilation (*place in open basement window*)
- Duct tape for straight, clean line masking
- One or more roller pans
- Two 1 cup measuring cups
- For mixing use the clean plastic pail supplied with the product, or as an option, a 1 gallon Zip Lock easy fill plastic bag may be used
- One mixing tool ( a plastic spatula works well)
- One 1 1/4" plastic putty knife
- Weed burner torch for artificial drying
- Drill with large mixing paddle

**Basic Surface Preparation**

**(See Additional Technical Information for Different Substrate Preparations)**

- Remove all bond breakers, pre-existing coatings, efflorescence and loose material from walls, cracks & joints by sweeping with a broom, a wire brush, scraping, pressure washing or abrasive blasting.
- High spots should be knocked down for a smooth and even finished appearance.
- In new installations, concrete should be fully cured at least 28 days before application.
- Oils, grease, and other bond breaking contaminants should be properly treated and removed.
- Concrete floors should be acid etched and neutralized. Proper concrete floor etching procedures must be performed to provide a permanent bond to the floor surface by removing concrete latencies on concrete floors only. Abrasive blasting is always preferable to acid etching whenever possible. These methods not only clean the floor, but remove weak surface paste and "latencies."

Concrete walls do not require this special preparation.

**IMPORTANT NOTE:** It is critical for negative hydrostatic pressure retention ability, that all concrete surfaces are **TOTALLY DRY** during application. In areas of flowing water, the concrete should be so dry that it is almost white in color. A dark color concrete signals too much moisture content.

**Mixing Dura-Flex SF**

Using a heavy-duty drill and mixing paddle, mix Dura-Flex SF at slow speed for 30 to 90 seconds or until fully blended. Add Dura-Flex SF Accelerator / Catalyst. Mix at slow speed for 30 to 90 seconds until fully blended. Care must be taken not to whip air into the mixture as this may cause pin-holes. Ratio of Dura-Flex SF to Catalyst / Accelerator is 16:1.

**STEP #1. Applying Dura-Flex to Walls, Cracks and Wall/Floor Joints**

Using a high quality medium nap paint roller, evenly distribute the Dura-Flex SF over all dry areas. Apply material evenly and as quickly as possible. Dura-Flex SF itself will not fill anything other than hairline cracks. Any cracks or imperfections larger than hairline must be subsequently filled with Dura-Lastic and Dura-Lastic Gel mixture. Dura-Flex SF will dry to accept Dura-Lastic or Dura-Lastic GEL mixture in 1 ½ hours.

### **IMPORTANT NOTES:**

• *Dura-Flex SF will not solidify in your bucket during your application. In some cases, a thin skin may form on the surface and need to be removed. Even after a long delay with the lid off, thinning the material will return it to application ready. See Additional Technical Information for Thinning Instructions.*

• *Be sure to monitor your application rate! Too thick and application may result in surface bubbles due to trapped air being unable to escape through the heavy coating before it cures.*

### **Applying Dura-Flex SF to Floors**

Pour the Dura-Flex SF material in small puddles over the first small area to be covered, quickly spread the liquid puddles with a flat squeegee, and then use the long-handled medium nap paint roller to evenly distribute the Dura-Flex SF. Distribute the material evenly and as quickly as possible. Once your initial application is distributed evenly to a flat and smooth surface, there is no need to roll any longer. Repeat this procedure to adjacent small areas until the entire floor has been covered. The surface will cure tack free and ready for light foot traffic in approximately four hours, at normal temperatures, overnight at colder temperatures near or below freezing

The coverage of Dura-Flex SF has been calculated at a rate of 6.68 mils or 240 sq. ft. per gallon.

**Poured concrete walls need only two coats of Dura-Flex SF. Block walls need three coats because they are extremely porous.**

### **STEP #2. Mixing and Applying Dura-Lastic and Dura-Lastic GEL mixture**

Using a heavy-duty drill and mixing paddle, mix Dura-Lastic at slow speed for 30 to 90 seconds or until fully blended. Add Dura-Lastic GEL at a ratio of not less than 4 parts Dura-Lastic to 1 part Dura-Lastic GEL and not more than 2 parts Dura-Lastic to 1 part Dura-Lastic GEL. ***Once mixed, you have 30 to 45 minutes working time*** before will become unworkable.

**IMPORTANT NOTE:** *Mix only what you can apply in 30 minutes or less to ensure a secure bond and eliminate waste.*

**Remember:** **Before applying Dura-Lastic, the surface must receive a prime coat of Dura-Flex SF. Dura-Flex SF needs to be applied before applying any extremely thickened mixture to allow for proper liquid penetration and bonding to the substrate surface.**

Fill all primed cracks, joints, holes or damaged areas. At the "cold joint" where the concrete wall meets the floor, you must create a 1-½ inch thick "Sealing Bead". The bead can be applied by extruding it directly from the mortar bag, or by using a 1 1/4" putty knife held at a 45 degree angle. After it is roughly applied, you can use a 2" or 3" paint brush to wipe the mixture down to a smooth finish.

### **STEP #3 Applying The Final Top Coat Of Dura-Flex SF**

The final coat of Dura-Flex SF is applied in exactly the same manner as the first coat. Dura-Flex SF will bond to itself and to the Dura-Lastic to provide a solid, unified, tough and absolutely waterproof surface. Again, the surface will cure tack free and ready for light foot traffic in approx. four hours at normal temperatures, overnight at cold temperatures near or below freezing.

**Safety:** **See product MSDS for all safety procedures including any equipment needs such as respirators, safety glasses, and protective gloves etc...**

ALLOW 7-10 DAYS FULL WORKING STRENGTH BEFORE HEAVY ABUSE SUCH AS HEAVY MACHINERY TRAFFIC OR INSTALLING HEAVY FURNITURE AND FIXTURES.