

# DURASHIELD™ 310 & 310-61

## TOUCH-UP KIT PARTS LIST & MIXING INSTRUCTIONS

EFFECTIVE: 8/23/19

### PARTS LIST

- 1 – Partial 1 gal. bucket of DuraShield 310/310-61 (Part A/POLYOL)
- 1 – Pint of Activator 9000 (Part B/ISO)
- 8 – Graduated mixing cups
- 8 – Mixing sticks
- 2 – 10cc syringes
- 2 – 20cc syringe
- 1 – 2" Paint brush
- 1 – Paint mixing stick

Mixed material (A + B) equals 0.500 gallon

### ADDITIONAL RECOMMENDED MATERIALS

- Goggles/Safety glasses
- Chemical resistant gloves
- Solvent: MEK, Acetone or IPA
- Clean white painters rags
- Drill
- Mechanical paint mixer
- Hand Grinder tool with coarse sanding ability

### MIXING INSTRUCTIONS

1. Before using the Kit, make sure that the surface has been prepared properly (see surface preparation Section IV in the *DuraShield 310 & 310-61 JARS Application Specification Sheet*) and is free of any rust, dirt, grease or any other types of contaminants. If the surface is not completely clean, solvent wipe as necessary using clean white painters rag. Approved solvents are MEK, Acetone or IPA.
2. Prior to proceeding, make sure that the DuraShield 310/310-61 POLYOL (Part A) is well mixed. Check the product for sediment in the bottom of the container. If there is any sediment, mix it in thoroughly before proceeding. **As a guideline: if your POLYOL has not been mixed for at least 10 days then you need to mix it.**
3. The Touch-up Kit is 3 to 1 ratio by volume. Three (3) parts DuraShield 310/310-61 POLYOL (Part A) to one (1) part Activator 9000 (Part B).  
**Note: the mixture of the two components is critical and at no time should the ISO amount be altered to adjust the coating properties. The reaction is 100% chemical and therefore the 3:1 volumetric ratio is critical.**

Examples of Mix Ratios:

POLYOL AMOUNT	ISO AMOUNT	TOTAL
15 cc	5 cc	20 cc
30 cc	10 cc	40 cc
3 oz.	1 oz.	4 oz.

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The formula for deriving the proper amount for each part is as follows:

$$\begin{aligned} [\text{AMOUNT OF POLYOL}] \div [3] &= [\text{AMOUNT OF ISO}] \\ [\text{AMOUNT OF ISO}] \times [3] &= [\text{AMOUNT OF POLYOL}] \\ [\text{AMOUNT OF TOTAL PRODUCT}] \times [0.25] &= [\text{AMOUNT OF ISO}] \\ [\text{AMOUNT OF TOTAL PRODUCT}] \times [0.75] &= [\text{AMOUNT OF POLYOL}] \end{aligned}$$

**CAUTION!!** LifeLast coating is not easily removed from skin and clothing once it has cured. Use protective gloves and clothing when applying this product and clean off any unwanted product immediately.

4. For a large one-time use the Touch-up kit is supplied in a pre-ratioed amount. If mixing the entire Touch-up kit at one time, the applicator will pour **all** of the Activator 9000/ISO (**B**) from the pint container into the DuraShield 310/310-61 POLYOL container (**A**) in such a manner to prevent spilling any of ISO (**B**). Once ISO (**B**) is completely poured into POLYOL (**A**), the applicator will immediately mix both components – POLYOL (**A**) and ISO (**B**) – together using a cordless or electric drill outfitted with a mechanical paint mixer blade. The mixing of components (**A**) and (**B**) shall be done in such a manner to ensure uniform mix has been achieved. This process requires that the applicator use supplied mixing stick to scrape the sides and bottom of the container during the mixing process. The mixing process shall take no less than 2 minutes. When mixing is complete, the mixture will be of uniform color and consistency.
5. If the user desires to mix up smaller amounts of Touch-up material, this can be accomplished by using either the syringes provided to measure out the exact ratio 3 (**A**) to 1 (**B**) amount of DuraShield 310/310-61 POLYOL (**A**) and Activator 9000/ISO (**B**) into the graduated cups provided, or use the graduated markings on the cups provided to measure out the correct 3 (**A**) to 1 (**B**) ratio.  
**Note: Do not mix more product than you can apply in 15 minutes. The product will become increasingly more difficult to work with after 15 minutes.**
6. When mixing smaller amounts of product, mix the products thoroughly with one of the mixing sticks provided for a minimum of one (1) minute. Continue mixing the product until there are no streaks or discoloration from any unmixed ISO; make sure to scrape the sides and the bottom of the cup while mixing.
7. Apply a liberal amount of the mixed coating to the substrate and begin spreading it with either the supplied brush or the tool of your choice. If you experiment with different types of tools while applying the coating, you will notice that they all give the coating a different texture.  
**Note: If pouring entire volume of mixed coating out of the container in which it was mixed, be sure NOT to scrape the sides and bottom of container to remove all coating, as this coating is not fully mixed and will, therefore, not cure properly.**
8. If more than one coat of the product is needed for texture or high millage, wait approximately one (1) hour (or until last coat is tacky) before re-coating and no more than four (4) hours.
9. Once the application is completed, use solvent to clean all tools that have come in contact with curing product. Refer to the *DuraShield 310/310-61 Technical Data Sheet* for the cure time required prior to placing into service. For NSF/potable water applications, the coating must cure for 72 hours prior to placing into service.