



## **Logisticlean Application Specifications for Logisti-Seal General Surfaces**

### **1.0 Scope**

a. This document contains the application specifications for Logisti-Seal and Logisti-Prep, outlining the processes and procedures for applying both to any hard, non-porous surface.

b. Please note that these specifications are to be used in conjunction with the processes and procedures of the individual entity owning, maintaining, or operating the asset to enhance quality, production, and safety. In the event of this document conflicting with the procedures, requirements, or processes of an individual entity, the conflicting areas need to be addressed in writing to ensure that all personnel are aware of any changes or alterations.

### **2.0 Purchasing and Materials Control**

a. Logisticlean is the sole manufacturer of Logisti-Seal and Logisti-Prep for commercial aviation aircraft. Materials not purchased through Logisticlean or its licensed distributors cannot be certified as the chemicals referred to above.

b. Logisti-Seal and Logisti-Prep should be stored at out of direct sunlight and away from any open flames, sparks, or other sources of ignition.

c. In case of spill of either Logisti-Seal or Logisti-Prep, remove all possible sources of ignition. Pick up spill with absorbent and place in container for disposal.

d. While on worksite, Logisti-Seal and Logisti-Prep can be stored in individual containers for technicians for use for application. These containers should be lightweight, able to be stored on or with each technician, and distinctly marked to differentiate between the respective chemicals.

### **3.0 Chemical Safety Precautions**

a. Technicians should be familiar with both Logisti-Seal and Logisti-Prep's Material Safety Data Sheets (MSDS). All instructions, requirements, precautions, and directions contained within must be followed explicitly.

### **4.0 Industrial Equipment Used**

a. In order to perform the Logisti-Seal process, the following industrial equipment may be used:

- Telescopic Boom Lift
- Scissor Lift
- Scaffolding/Maintenance Stands
- Generator

b. Industrial Equipment is used to assist personnel in applying Logisti-Seal and Logisti-Prep to the areas unable to be reached from the ground. This equipment is recommended when using the orbital buffers to provide a more stable working platform than a ladder is able to provide. The equipment is also used due to the fact that once Logisti-Prep is applied to the surface, the surface becomes slick and becomes dangerous to try to maintain a footing on the asset.

c. All training and safety requirements of any Industrial Equipment used in the application of Logisti-Seal and Logisti-Prep must be adhered to. Please refer to any equipment's manufacturer's literature and individual company policy regarding Training and Safety in regards to equipment used.

### **5.0 Logisti-Seal and Logisti-Prep Equipment**

- a. Logisti-Seal and Logisti-Prep are applied with the following types of buffers:
- Orbital Polisher – Model CHD
  - Orbital Polisher – Model BWC

The Model CHD is a 14 pound, eight inch tall Polisher and rotates at 1730 RPM.

The Model BWC is a 16 pound, 10 inch tall Polisher and rotates at 1650 RPM.

Both Polishers are encased in a heavy duty aluminum casing and are made to be used 8 hours a day, 7 days a week for ten years.

- b. Each Polisher is an orbital buffer with a cotton bonnet on the head. The bonnets are one hundred percent cotton. Cotton bonnets are reusable and reversible.
- c. A single cotton base bonnet should be placed over the foam pad on buffer prior to a Logisti-Seal or Logisti-Prep application. The bonnet is placed on to protect the foam pad and should be changed as needed.
- d. In areas deemed necessary, buffers will be secured to personnel to prevent dropping and damaging the aircraft.
- e. Prior to using a buffer, each technician should have received Logisti-Seal and Logisti-Prep training, including training with at least one of the buffer models. Training can be received via a Logisticlean trained trainer program or a CD training course.
- f. Other buffer types, such as the Buffmaster Long Arm buffer, are possible to use for application of Logisti-Seal. Logisticlean can work with individual entities to determine if pre-existing equipment can be used for application.

## **6.0 Surface Pre-Inspection**

- a. Prior to a surface undergoing the Logisti-Seal process, it is required that a quality check be performed and parameters set on the surface type to ensure that the aircraft is completed to the customer's specifications and that an accurate assessment of the quality and the effects of Logisti-Seal can be determined.
- b. In cases of older surfaces with a great deal of exterior debris build up, Logisticlean recommends a quick cosmetic wet or dry wash when possible to quickly remove surface debris. This will allow the Logisti-Prep application to be completed more quickly. In the event a wash cannot be accomplished, the Logisti-Prep application will remove all of the exterior debris.

## **7.0 Facilities**

- a. Logisti-Seal can be applied in both direct sunlight or within a covered area. Application is not to be done in temperatures under freezing or in the rain.
- b. In order to operate Orbital Polishers, access to 110V power is necessary.

## **8.0 Safety**

- a. Logisti-Seal makes the surface incredibly slippery to be on. Due to this, it is necessary to ensure that all technicians are secured when working at appropriate heights. When working in a boom, all personnel must be harnessed with proper safety equipment. Scaffolding also requires that personnel be appropriately secured to ensure safety.

## **9.0. Areas for Application**

- a. Logisti-Seal and Logisti-Prep and can be applied to any hard, non-porous surface.
- b. When applying to glass, only Logisti-Seal needs to be applied.

### **10.0. Logisti-Prep Application**

a. Logisti-Prep is used to prepare and clean the surface to receive the Logisti-Seal chemical. In order for the Logisti-Seal to apply properly, it is necessary to ensure that the surface it is being applied to has been purged of any and all contaminants, dirt, and grime.

b. Logisti-Prep will be applied using one of the two buffers listed above with the prescribed cotton pads. Logisti-Prep is applied to the cotton bonnet by spinning the buffer head with your hand and applying three or four concentric circles to the bonnet.

c. The Buffer is then applied to the surface and turned on to work the Logisti-Prep into the pores of the surface. The buffer IS NOT to be turned on until the bonnet is FIRMLY pressed against the surface. Turning the buffer on prior to applying it to the surface will "spray" the Logisti-Prep across too great of an area and the bonnet may be thrown from the buffer.

d. Technicians must work in small areas to ensure complete application to all surfaces receiving the Logisti-Prep treatment. Logisti-Prep only requires 45 seconds on the surface. Allowing it to remain on the surface longer does not cause any damage, but does make removal more difficult after 5 minutes. If product dries and becomes difficult to remove, just reapply Logisti-Prep to area to reactivate and remove within prescribed time frame.

e. Freshly painted or polished surfaces are not required to be treated with Logisti-Prep based upon inspection of surface for debris as defined in Step 6.0.

### **11.0. Logisti-Prep Removal**

a. Logisti-Prep can be removed using the Orbital buffer and clean cotton bonnet or by hand using a clean cotton bonnet or towel depending on operational/logistical needs.

### **12.0. Logisti-Seal Application**

a. Logisti-Seal will be applied using one of the two buffers listed above with the prescribed cotton pads. Logisti-Seal is applied to the cotton bonnet by spinning the buffer head with your hand and applying three or four concentric circles to the bonnet.

b. The Buffer is then applied to the surface and turned on to work the Logisti-Seal into the pores of the surface. The buffer IS NOT to be turned on until the bonnet is

FIRMLY pressed against the surface. Turning the buffer on prior to applying it to the surface will “spray” the Logisti-Seal across too great of an area and the bonnet may be thrown from the buffer.

c. Technicians must work in small areas to ensure complete application to all surfaces receiving the Logisti-Seal treatment. Logisti-Seal only requires 45 to 60 seconds on the surface. Allowing it to remain on the surface longer does not cause any damage, but does make removal more difficult after 3 to 5 minutes, depending on ambient temperature. The higher the temperature, the less time the product should be allowed to set. If product dries and becomes difficult to remove, just reapply Logisti-Seal to area to reactivate and remove within prescribed time frame.

### **13.0. Logisti-Seal Removal**

a. Logisti-Seal can be removed using the Orbital buffer and clean cotton bonnet or by hand using a clean cotton bonnet or towel depending on operational/logistical needs.

### **14.0. Quality Control/Adhesion Test**

a. In order to determine if the Logisti-Seal has adhered to the surface, take a fresh, clean cotton rag and rub it across the surface using moderate to firm pressure. Areas where the chemical has bonded will allow the rag to slide across the surface with ease, without catching. Areas that have not been properly sealed will “catch” the rag as it passes over the surface. If any area results in a “catching” effect, repeat steps 8.0 through 12.0 until rag does not “catch” and slides seamlessly over the surface.