APPLICATION

1. Place a Secure Seal™ chamber on a smooth flat surface with the *gasket side up*.
2. Use a forceps to peel off the thin adhesive liner on the gasket surface as shown in Figure 1.

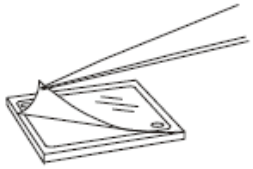

Figure 1

3. Press a glass slide onto the gasket, aligning the sample area with the gasket interior as shown in Figure 2. If your application requires that the SecureSeal be removed from the glass, use a glass slide instead of glass coverslips (SecureSeals cannot be removed from glass coverslips).

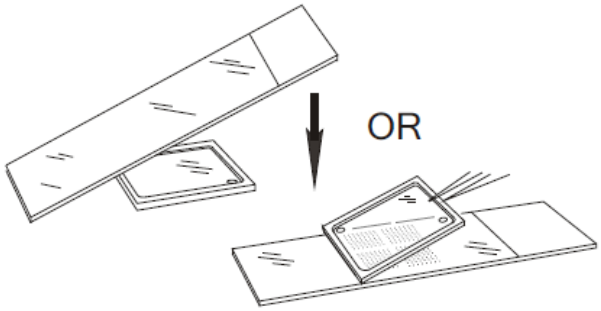

Figure 2

4. Ensure a secure seal by pressing the surface of the Secure Seal™ over the adhesive area using finger pressure or by rubbing the Secure Seal™ Surface gently against the edge of the lab bench (Figure 3). Confirm uniformity of the seal by visually inspecting the adhesive area through the glass slide.

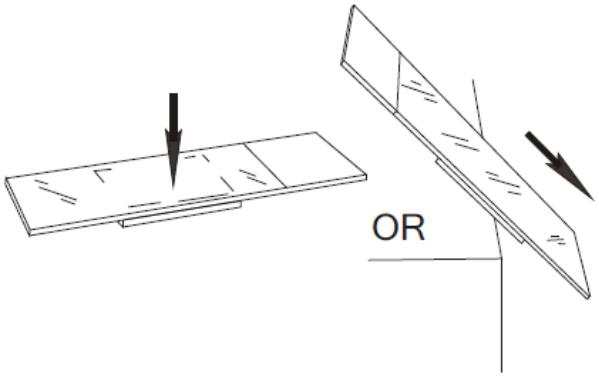

Figure 3

APPLICATION (continued)

Secure Seal incubation chambers are RNAse free. Working surfaces are protected from RNAse contamination by the release liner. Take care not to contaminate exposed working surfaces.

For an exceptionally secure seal, perform one of the following procedures prior to filling.

- *Allow chambers to adhere for 2 hours at room temperature*
- *Heat chambers in a 100°C in an oven for 20 minutes*
- *Heat gently on the surface of a hot plate (glass side down) for 5 seconds*

FILLING

1. As shown in Figure 4, pipet reagent solution through one port on the chamber surface while allowing air to escape through the other port.

   For rotating incubations, chambers need only be filled slightly beyond half-way to provide a "mixing bubble".

   To prevent air bubbles from forming in completely filled chambers due to specimen or reagent out-gassing, we recommend that slides and reagents be brought to incubation temperature before use. Where possible, liquids should be de-gassed.

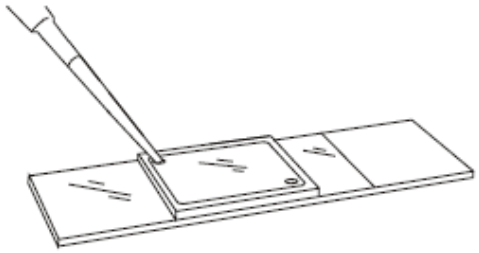

Figure 4

SEALING

1. As shown in Figure 5, use a forceps to remove a seal tab from the liner strip and gently place one over each filling port.

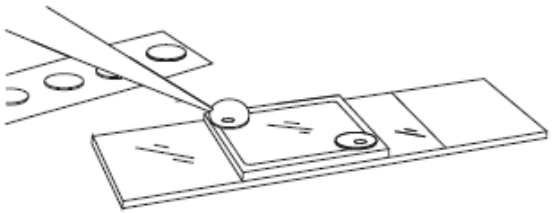

Figure 5

SEALING (continued)

2. Apply finger pressure to both tabs simultaneously for approximately five seconds to ensure a secure seal (Figure 6).

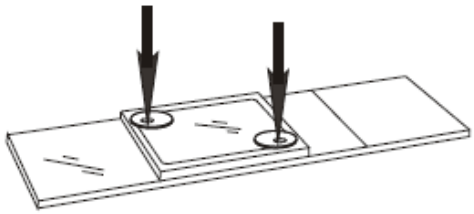

Figure 6

Seal tabs adhere to most wet surfaces, however, excess reagent on the chamber surface may be wiped away with a tissue before seal tabs are applied. Take care not to "wick" reagents from the port.

Secure Seals may also be sealed for stationary incubations by applying a droplet of oil or nail polish over each port or by placing a HybriSlip™ over the chamber surface.

REMOVAL

1. As shown in Figure 7, grasp the edge of the chamber firmly and peel the Secure Seal away from the microscope slide.

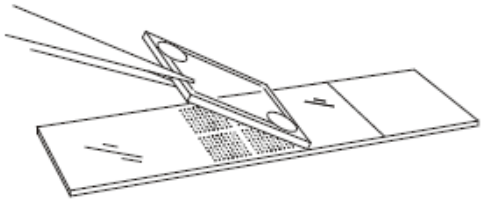

Figure 7

If your application requires that the SecureSeal be removed from the glass, use a glass slide instead of glass coverslips (SecureSeals cannot be removed from glass coverslips).