Manufacturer: Afa Dispensing Group Model: OpUs[™] FOvi CR Trigger Sprayer Screw & Snap-on Versions ASTM Type: IXB

Description:

The OpUs[™] FOvi CR Trigger Sprayer (Foam-off with vented insert) nozzle has a protrusion with a mesh insert and air vents. The package consists of a plastic bottle, a one-piece plastic closure and a trigger sprayer pump (see Figure 1 arrow points to vent slots in protrusion where it attaches to the main portion of the red nozzle).



Figure 1

The trigger sprayer closure may be securely affixed to the container by two different methods, which are a continuously-threaded closure or a snap closure.

The continuously-threaded closure securely attaches the trigger sprayer to the container by continuous threading and engagement of matching ratchets on the inside of the closure and five ratchets on each side (180⁰ apart) of the container (see arrow to ratchets on the closure and the bottle in Figures 2A and 2B).



Figure 2A



The snap closure securely attaches the trigger sprayer to the container by snapping three tabs inside the closure skirt (see black arrows Figure 3A) into three ledges/lugs on the container neck (see green arrow Figure 3B). There are also two sets of vertical ribs on the closure skirt (see red arrow in Figure 3A) and two vertical ribs 120⁰ apart on the container neck (see red arrow to vertical rib in Figure 3B). Each of the vertical ribs on the container neck engages a set of the vertical ribs on the closure skirt inhibiting the sprayer from rotating. Once the closure is snapped onto the container neck the closure is difficult to remove.



Figure 3A

Figure 3B

The trigger sprayer nozzles for both the continuously threaded and snap closures are identical. The OpUs[™] FOvi trigger nozzle has 4 positions:



Figure 4A

Figure 4B

The two spray positions are each indicated by a pictorial spray pattern (Figure 4A). The two spray positions are located 180° apart. The closed position indicated by the word "STOP" is 90° from the spray position (Figure 4B). The nozzle tab is located 180° apart from the closed position (see arrow in Figure 4A). The trigger sprayer is operated by lifting the nozzle tab up, rotating the nozzle 90° from the stop position to the spraying position and then squeezing the trigger (Figures 4C). The trigger sprayer is closed by turning the nozzle back to the stop position, which lines up with a clear triangle on the shroud of the trigger sprayer (see arrow in Figure 4B and Figure 4D).



Figure 4C



Figure 4D