

Tote Dispensing

This document is intended to review proper configurations, and offer solutions for optimal dispensing of Mica Corporation products from IBC totes.

The Tote

The totes are recyclable, 275-gallon (1,000 liter) bag-in-box intermediate bulk containers (IBC), supplied by Grayling. They have one 2" NPS female threaded fitting on the top, and one 2" buttress female threaded fitting on the lower side. The liner is a 3 ply polyethylene bladder, and the frame is a 4-ply corrugated cardboard box which sits on a heat-treated wooden pallet.

Top Feed Dispensing

Based on customer experience, we have found that the most effective way to dispense from our tote is to pump from the top outlet. By pumping through the top, the risk of leaking is minimized, and the utility of the tote is maximized.

To dispense from the top, you will need a hose and a pump. Using a 2" adapter with a hose barb (Figure 1) connect the hose to the top dispensing port on the tote (Figure 2). Connect the other end of the hose to the pump. We suggest using a positive displacement pump such as a diaphragm pump (Figure 3). Centrifugal pumps can cause the product to foam. To avoid contaminating the primer, be sure to use only plastic and stainless steel for wetted parts.



Figure 1



Figure 2



Figure 3

Bottom Feed Dispensing

Bottom dispensing can be achieved through the use of a special valve and piercing device provided by Mica Corporation (figure 4). We have determined that these valves cause some difficulty in making a leak-free connection. Please follow the instructions carefully to maximize efficiency.

Using the Valve and Piercer

- Screw the valve into the bottom outlet carefully to avoid cross-threading. Once the gasket comes in contact with the threaded fitting, tighten the valve 1/8 a turn by hand.
Do not use tools to tighten the valve
- Retract the piercer and open the valve by turning the yellow handle
- Screw the piercer hand tight into the valve
- Place a pan or bucket under the valve and piercer to catch drips that will occur when the piercer is removed
- Push the piercer through the valve and into the tote until it stops
- Pull the piercer back out
- **Close the valve**
- Unscrew the piercer with rubber-gloved hands, as some primer will leak out
- The valve is now ready for use



Figure 4

Contact Us

If you need to request a valve, or have any questions or concerns about dispensing from our totes, please contact your Mica Corporation Technical Sales Representative at any time.