



ISO & ROAD TANK PASSIVATION PROCEDURE

WITH SIMPLICITY FOGGER

SAFETY & HANDLING

John-Henry Passive-8® and Passive 8LD® solutions are acidic and highly corrosive. Provide ample ventilation; avoid prolonged breathing of fumes and contact with skin, eyes, and clothing. Personal protective gear should include a face shield and/or goggles, plastic coated gloves, and protective clothing.

Skin Contact: wash with soap and water, flush with copious amounts of water. Eyes Contact: flood with water for at least 15 minutes and seek medical attention. Refer to respective SDS for more detailed information.

WARNING! John-Henry passivation solutions are intended to be used at ambient temperatures of 55 to 90 degrees Fahrenheit (13 to 32 degrees Celsius) for optimum performance and safety. Check temperature of the tank and allow to cool down if necessary.

USAGE:

Use approximately 1-1/2 US gallons (5-3/4 liters) of Passive-8 passivating solution per 1000 US gallons (3785 liters) of tank capacity. Example: 10 US gallons (38 liters) of Passive-8 for a 6500-gallon (24,600 liters) tank.

INSTRUCTIONS:

Insert Simplicity Fogger into tank, and place suction tube into chemical. Open air valve on the fogger and begin fogging. Actual fogging may be complete in 30-35 minutes. Allow to stand for another 15 minutes, or until 45 minutes total has elapsed. Remove fogger. Cold-Water flush and inspect tank.

NOTES:

- 1) The tank to be passivated must be absolutely clean. Buffing can leave an invisible polymeric film on the tank's interior surface. It should be removed by booster washing, or padding with a butylated detergent, followed by a rinse.
- 2) It is recommended that the tank remain wet from final rinsing, but excess water should be drained.

PASSIVATION

1. The tank **MUST** be vented for the Simplicity Fogger to operate properly. In a well-ventilated area, the internal and/or drain valve may be opened to permit venting of the tank. However, in a work area with insufficient ventilation, close the drain valve and vent the tank through a hose run from a washout port to a suitable mist/vapor collector or to an open area away from the work space. Close all other tank ports securely.
2. It is recommended to place a proper waste container under the drain outlet so that the used passivation solution can be collected for neutralization and disposal.
3. Securely attach the Simplicity Fogger to a 3” washout nipple on a manway lid or adapter.
4. Place the suction tube in the container with the Passive-8 or Passive 8LD solution.
5. Open the Simplicity Fogger air valve. (regulated air at 80 psi or 5.5 bar)
6. When the correct amount of solution has been applied (see “USAGE”), close the Simplicity Fogger air valve.
7. Remove the Simplicity Fogger and seal the tank for the required saturation time. A total period of not less than 30 minutes, and not more than 45 minutes from the time fogging begins. **DO NOT EXCEED SAFE MAXIMUM OF 60 MINUTES!!!**
8. **CAUTION:** Do not allow solution to get on skin or clothing!!
9. Rinse the tank thoroughly with fresh water to remove all traces of the Passive-8 solution. The rinse water can be tested with litmus or pH paper for neutrality.

TEST PROCEDURE:

After rinsing and drying the tank, the tank should be checked to be certain that it has been successfully passivated. The interior surfaces maybe checked by using an electronic tester, such as the Koslow 2026 Passivation Test Kit. Alternatively, copper sulfate method is also effective.

CLEAN-UP & FLUSHING:

- 1) Place the fogger’s suction tube in a clean container filled with clean water, de-ionized or distilled if available. Use 1 US gallon or 3.8 liters minimum.
- 2) Open main air valve. Thoroughly flush the system, then close air valve.
- 3) Suspend the Simplicity Fogger in a suitable container for collecting any fluid that will be flushed from the product lines. Rinse all parts of the passivation equipment with water.
- 4) Store the Simplicity Fogger in an appropriate holder to prevent damage and/or clogging with dirt.