



# OPERATING INSTRUCTIONS

Applicable for all disposable systems



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# Setting Up Your System

## IMPORTANT – FOLLOW INSTRUCTIONS

VERSI-FOAM systems are factory tested to meet rigid performance standards. Proper function of the product is totally dependent upon strict adherence to the operating instructions included in this manual.

**IN ALL CASES, KITS SHOULD BE OPERATED IN THE UPRIGHT POSITION (WITH TANK VALVES ON TOP). FAILURE TO DO SO WILL RESULT IN LOSS OF PRESSURE.**

**OPERATOR SHOULD ALWAYS WEAR SAFETY GOGGLES, GLOVES AND PROPER RESPIRATORY EQUIPMENT IF ADEQUATE VENTILATION IS NOT AVAILABLE.**

## SETTING UP THE VERSI-FOAM SYSTEM 15

(ALSO SYSTEMS 15 CLASS I, 15 MSHA, 15 SLOW RISE, 10 AND 28)

### COMPONENTS

The VERSI-FOAM System 15 includes two chemical components – A Component in the green tank and B Component in the white tank – a gun and two ten-foot hoses that are attached to the tanks, a packet including 10 mixing nozzles, 3 fan tips, a pair of nitril gloves, and petroleum jelly.

**TO PREPARE FOR OPERATION,** unwrap the gun and hose assembly and remove the nozzle packet.



## SETTING UP THE VERSI-FOAM SYSTEM 50

(ALSO SYSTEMS 50 CLASS I, 50 MSHA, 50 SLOW RISE, 33 AND 88)



### COMPONENTS

The VERSI-FOAM System 50 is in two cartons. One contains the blue A-Component tank; a gun attached to two 15-foot hoses; 10 mixing nozzles, 3 fan tips, a pair of nitril gloves, a wrench, and petroleum jelly. The other carton contains the white B-Component tank.

**TO PREPARE FOR OPERATION,** attach hose "A" to the A-Component tank. Hand-tighten the collar nut (on the end of the hose assembly) to the tank and secure with the wrench. Attach hose "B" to the B-Component tank and tighten with the wrench.

# Operating All Systems



1. Shake each tank/box vigorously.

2. Check the temperature strip (on top of the White tank). Look to see which square is indicated. If the **blue** square is indicated, the chemical is too cold. Warm the kit prior to use. If the **red** square is indicated, the chemical is too warm. Cool the kit prior to use. If the **green** square is indicated, the kit is at the proper temperature and ready to use.

3. Using a small amount of petroleum jelly, lubricate the "O-ring" that surrounds the face of the gun. Install a mixing nozzle by lining up the locking arms with the slots in the gun body. Push in firmly until you hear a "click" and the nozzle is firmly secured.



To remove the nozzle, squeeze locking arms and pull nozzle out.

4. Open valves slightly. Make sure there are no leaks. If a leak is detected, tighten the nut. If there are no leaks, open the valves completely.

5. Check operation of the kit by aiming the gun into a waste container. Disengage the safety. Dispense foam at full pressure to make sure chemical is feeding from both tanks and is reacting to make good quality foam.

## FOAM SET-UP TIMES

VERSI-FOAM sets up tack-free or dry to the touch in less than one minute in temperatures between 70°F and 80°F (21°C-27°C). Higher temperatures will result in faster setup times.

The mixing nozzle is where the two chemicals are actually blended and become foam. If dispensing is interrupted for 30 seconds or more, the nozzle must be removed and changed prior to the next shot.

## TEMPERATURE

Temperature is important in producing good quality foam, cure time, density and physical properties.

Kits should be stored at temperatures between 40°F and 100°F (5°C-38°C). Never store in temperatures above 100°F (38°C). Do not store in temperatures lower than 30°F (-1°C). Product may freeze.

For the best performance, chemical temperature must be between 60°F and 80°F (18°C-27°C). The liquid crystal temperature strip found on the B Component (white) tank reflects the chemical temperature. When the **green** square is indicated, the chemicals are at the proper temperature for use.

If the **blue** square is indicated, the chemicals are too cold for proper use. Dispensing when the chemicals are too cold will result in foam that is darker in

color and will have a crunchy surface. Place the tanks in a warmer area until the liquid crystal temperature strip indicates the **green** square and the chemicals are at the proper temperature for use.

If the **red** square is indicated, the chemicals are too warm for proper use. Dispensing at this temperature will result in foam that is lighter in color and has a soft and spongy surface.

Place the tanks in a cooler area until the liquid crystal temperature strip indicates the **green** square and the chemicals are at the proper temperature for use.

Remember, cooler or warmer ambient temperatures will affect the chemical temperatures as the kit is being used.

Always monitor the liquid crystal temperature strip to ensure the chemicals are at the proper temperature.

Surface temperature will affect the expansion, cure time and possibly also the adhesion of the foam.

Ideally, the best results are obtained when the surface temperature is between 60°F and 80°F (16°C-27°C).

Cooler temperatures will result in less expansion and slower cure times.

Temperatures below 50°F may result in adhesion problems due to condensation. It is recommended that the surface temperature be raised artificially or that the project be delayed until a time when the sun or interior temperatures can warm the surface.

Higher temperatures will result in faster cure times, less expansion and in some instances, adhesion problems.

## SPRAY TECHNIQUE

The patented U-CONTROL gun permits the user to meter the flow of material, dispensing only the amount of foam needed for the job at a convenient speed. Hold the gun like a pistol, and pull evenly on the trigger until you obtain the flow you desire.

For spray application, it is recommended that the gun be held 18 to 24 inches away from the surface to be foamed. If you wish to move closer to avoid splatter, adjust the pressure applied to the trigger.

Even coverage is obtained by moving the gun steadily back and forth and applying a constant trigger pressure. Attaching the fan tip (by screwing on to the threaded end of the mixing nozzle) will result in a wide flat fan pattern.

VERSI-FOAM expands six (6) times its original liquid volume when it cures -- important to remember this when applying a spray pattern or filling a cavity.

When estimating the amount of foam for a specific project, remember that published yields are theoretical, based on foam density and the weight of the chemicals packaged in the kits.

Allow for variations in material requirements. There are many factors that affect foam yield.

Chemical temperature and surface temperature cause variations. Other factors are surface irregularities, the number of layers needed to achieve the desired thickness, and free-rise, or enclosed, cavities. It is recommended to estimate that 10% to 25% more foam will be required than exact measurements indicate.

# Storage and Reuse

Unopened systems are guaranteed up to the expiration date stamped on the carton (13 months from the date of manufacture). Once the kit is opened, it is warranted for 30 days. It is strongly recommended that the kit is used a minimum of once per week to keep fresh chemicals in the lines.

Store the kits in an environment of 40°F to 100°F (5°C-38°C), whether opened or unopened. At no time should the kits be stored in temperatures above 100°F (38°C) or lower than 30°F (-1°C). Nor should they be stored in direct sun or near hot water pipes, furnaces, chimneys or heat ducts.

If they have been stored in cool temperatures, it is important that they are relocated in a warmer place until the chemicals reach a temperature between 65°F and 80°F (18°C-27°C). The temperature sensing strip located on the "B" Component tank will indicate when the chemical temperature is at the correct level to dispense good quality foam (See "Operating All Systems", Section 1).

## STORAGE

1. Make sure to remove the used nozzle and discard it. Coat the face of the gun with a GENEROUS amount of petroleum jelly.

2. Apply petroleum jelly to the valve stems and close the valves.

3. Keep the cartons in their upright position. Store in temperatures of 40°F to 100°F (5°C-38°C).

4. In cases where the kit is used infrequently, we strongly recommend that the gun is used briefly a minimum of once per week to ensure that fresh chemical is in the lines. This helps to prevent gun blockage. Simply aim the gun -- without a nozzle -- into a waste container and spray for a couple of seconds. Make sure there are streams of equal velocity from both chemical tanks. Agitate the two chemicals in the waste container to ensure they form a solid industrial waste. Reapply a GENEROUS amount of petroleum jelly to the face of the gun. The kit can be stored for another week.

## REUSE

1. Open the valves, making sure fittings are still secure and there are no leaks.

2. Aim the gun -- without a nozzle -- into a waste container and make sure there are two streams of chemical of equal velocity. Agitate the two chemicals in the waste container to form a solid industrial waste.

3. Attach a new nozzle and dispense foam.



