



Technical Bulletin

Henkel TCS Department
26235 First Street
Westlake, OH 44145
1-800-624-7767

OSI® Foam Applicator Gun Best Practices

CAUTION: Do not point the applicator gun at people or animals. Always wear eye protection, gloves and protective clothing. Avoid damage to existing materials in replacement situations. Use a drop cloth to protect work area at all times.

Instructions for Use:

1. Shake can well 15 to 20 times prior to attaching the gun. Align canister and gun. Screw black collar of canister onto the basket adapter of the gun by hand until snug, being careful not to cross-thread the unit. Do not over tighten. NOTE: It is important to align threads properly to prevent possible leakage
2. Shake can well before use and during any work interruptions. Note: In colder temperatures we also recommend occasional shaking during use to ensure consistent flow. Keep product temperature above 45° F for maximum performance and best flow rate.
3. Aim gun into an appropriate receptacle such as a box or bag or on a disposable surface to test flow rate. Pull trigger to start the flow of foam.
4. Adjust the control knob (release valve) on rear of gun to regulate flow. Clockwise decreases flow, counterclockwise increases the flow
5. Do not store gun with empty canister on the gun. When changing canister, replace empty can immediately to avoid hardening or clogging of foam in the applicator gun.

Maintenance and Cleaning:

1. A partially used can may be left on the applicator gun between jobs when the release valve is fully closed (full clockwise), but no longer than 30 days' maximum. It is not necessary to clean the applicator gun until the canister is removed. When not in use, ensure that the release valve is in the closed position (full clockwise) to avoid foam curing up inside the gun. Temporary storage must always have a pressurized foam can attached to the gun. Never remove a partially used/dispensed can as they are pressurized.
2. Completely emptied cans must be replaced immediately. Clean the applicator gun thoroughly as soon as possible after the canister is removed if no replacement can be available to avoid the foam hardening inside the applicator gun. Once the foam has cured, cleaners will not work or dissolve the polyurethane foam.
3. Use OSI® Foam Clean, pressurized cleaning solvent, to clean gun or use OSI® Foam Clean with button actuator on its valve stem for spot cleaning and the clean up of uncured foam when changing cans. Always CLEAN "basket adapter" completely of any residual foam material before replacing. Use petroleum jelly lubricant on the basket adapter to prevent over-tightening
4. Screw OSI® Foam Cleaner canister onto the applicator gun. Spray the cleaner onto a disposable surface or into a container for 3-5 seconds. Open release valve partially (counterclockwise, but do not unscrew the valve from the gun). Spray again for 3-5 seconds and repeat as necessary.
5. For Long term storage: Leave solvent in the applicator gun for 2 minutes. Spray for another 3-5 seconds to remove used solvent from the applicator gun. Repeat this process until the solvent spray out is completely clean. Remove the OSI® Foam Cleaner canister from gun. Release pressure by pulling trigger then close regulator valve. Use petroleum jelly on nozzle tip and basket before storing applicator.
6. If necessary, with no can attached, unscrew the regulator knob and remove the needle. Clean the needle with a non-abrasive rag wet with cleaning solvent.
7. Grease the needle with petroleum jelly lubricant before replacing in the applicator gun. BE CAREFUL not to lose the parts as they cannot be replaced.
8. Routinely clean the screw-on brass tip to keep it completely free of hardened foam. Spray OSI® Foam Cleaner into the brass tip's cavity. If foam has cured inside the brass tip, use a probe to break apart and remove the cured foam to maintain a clear path for the foam to travel.

Warning: Do not completely unscrew release valve from the foam gun while connected to a PU foam or cleaner canister. Back pressure may cause the valve to fly off from the gun and cause harm.

Helpful Hint: Squeeze trigger when unscrewing an empty can, in order to depressurize dispensing unit (point dispensing unit into appropriate waste receptacle). This will help to prevent backflow of material from the basket adapter

1. Holding the trigger open during the entire can changing process will help to prevent backflow of material from the basket adapter.



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TROUBLESHOOTING

PROBLEM: No product extrudes from the gun applicator when trigger is pulled, or product extrudes too slowly.

<u>POSSIBLE CAUSE</u>	<u>SOLUTION</u>
➤ Cured product at the tip of the gun can partially or completely block the flow of the product	➤ Rub the gun tip on a piece of soft lumber, or use a knife, wire brush, etc. to remove cured residue.
➤ Product is too cold. This will thicken the liquid in the can and reduce the propellant pressure, resulting in a slower flow rate	➤ It is recommended to store the cans between 65-75°F (18-24°C) prior to use. Maintain chemical temperature above 40°F (5°C) for best flow rate. DO NOT heat cans with local heat sources (stove, radiators, hot plates, etc.)
➤ Basket adapter may become clogged with cured foam product if gun is stored without can attached, or if it not cleaned thoroughly when changing cans.	➤ Foam gun may no longer be useable and needs to be replaced.
➤ Slow flow towards end of can may indicate a loss of propellant pressure due to either cold temperatures or from dispensing foam horizontally.	➤ Keep can vertical as possible during dispensing, with valve down. If “spitting” or gas lose is excessive, shake can periodically as the can empties.
➤ Regulating screw on back of gun is in closed position.	➤ Open regulating screw on back of gun by turning counterclockwise
➤ Product is past its shelf Life	➤ Shake can. If no liquid movement is felt (or product is very thick) then it may be past its shelf life and needs to be replaced
➤ Product does not dispense after storage.	➤ Product was stored beyond 30 days after original opening, or product has expired shelf life.
➤ PU foam leaks out of gun when it is off:	➤ Remove the canister, release the pressure and empty the foam remaining in the applicator. Clean gun then remove and clean the needle with OSI® Foam Cleaner (see above steps 5 and 6). If the gun continues to leak the parts may be worn and the gun needs to be replaced.

PROBLEM: trigger will not depress

<u>POSSIBLE CAUSE</u>	<u>SOLUTION</u>
➤ Regulating screw on back of gun is in closed position.	➤ Open regulating screw on back of gun by turning counter-clockwise
➤ Cured product on needle valve may cause the trigger to stick. Excessive force should not be used if trigger will not open readily, as this may cause damage to parts	➤ If the needle valve cannot be dislodged using the trigger, it may be able to be “broken free” by turning or carefully removing the regulator screw being careful not to lose the spring and ball. Turn the needle valve using a set of pliers. If this does not free the valve, then the internal parts are clogged with cured foam and the gun needs to be replaced.

PROBLEM: Properties of dispensed product not acceptable or behaving unusually

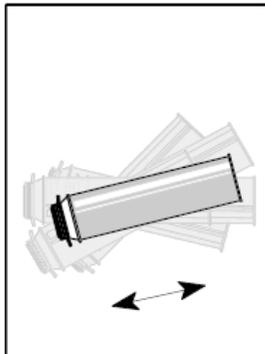
<u>POSSIBLE CAUSE</u>	<u>SOLUTION</u>
➤ “Spitting” during dispensing or propellant bursts can be caused by not keeping can vertical with valve down.	➤ Slight spitting can be expected. Excessive spitting is not normal. Keep can vertical with valve down. Intermittent shaking of can is required to keep the contents mixed properly. Aerosol cans must be shaken during and in between work interruptions.
➤ Cured product on needle valve may cause the trigger to stick. Excessive force should not be used if trigger will not open readily, as this may cause damage to parts	➤ If the needle valve cannot be dislodged using the trigger, it may be able to be “broken free” by turning or carefully removing the regulator screw being careful not to lose the spring and ball. Turn the needle valve using a set of pliers. If this does not free the valve, then the internal parts are clogged with cured foam and the gun needs to be replaced.
➤ The appearance of the dispensed bead of foam can be greatly affected by the condition of the dispensing gun. Larger open celled appearance may result if gun is not properly maintained. Also, product that is left in the barrel of the gun, or allowed to get too cold may also affect appearance.	➤ The initial burst of material from the barrel may be more open celled than normal. If unacceptable appearance continues, then the basket adapter may need a thorough cleaning. Test with a fresh can or product that is at the proper dispensing temperature for dispensing.



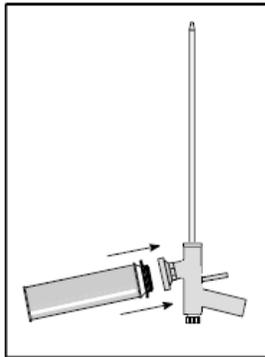
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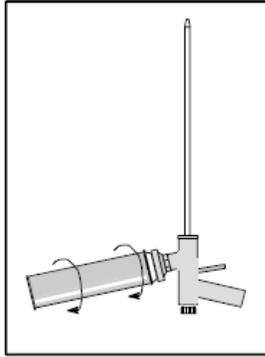
STEEL DISPENSING GUN INSTRUCTIONS



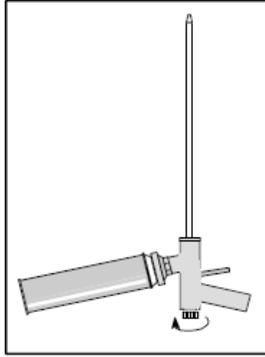
Prior to use, shake for 1 minute.



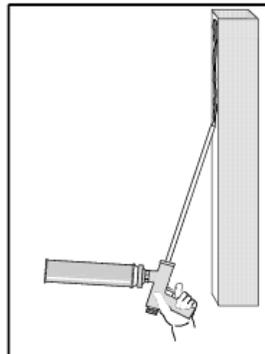
Make sure gun basket is clean. Apply petroleum jelly to inside of basket for easy can replacement. Place the can collar into the gun basket.



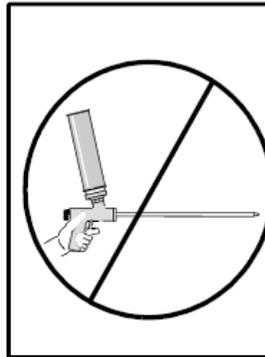
Screw the can into the gun basket, turning clockwise. Do not over tighten.



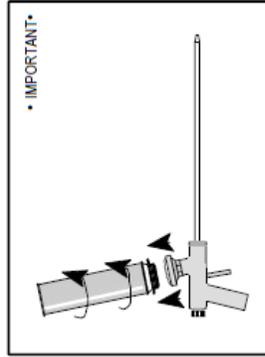
Open the gun safety by turning the knob counter clockwise. This allows the trigger to be pulled back, and the flow to be regulated.



Pull back on the trigger to dispense material, keeping the can in a vertical position.

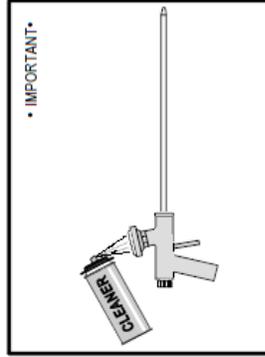


To assure proper mixture and emptying of the can, NEVER spray when the can is in a horizontal or upside down position.



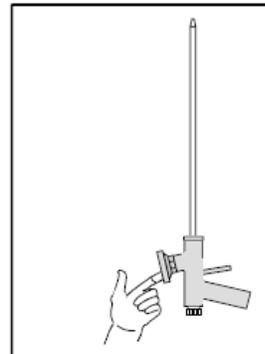
• IMPORTANT •

When the can is empty, remove the can by turning counter clockwise. A small amount of foam will be present in the gun basket.

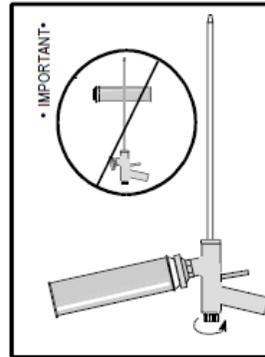


• IMPORTANT •

After removing the empty can, gun cleaner should be used to remove leftover foam from the basket. Always clean the basket prior to screwing on a new can. (For longer periods of storage attach the cleaner to the basket and thoroughly flush the interior of the gun.)

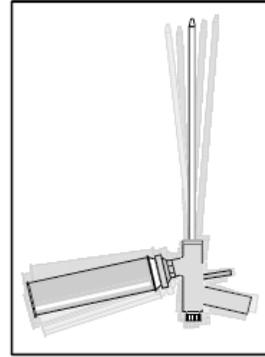


After cleaning the gun basket with solvent, apply petroleum jelly on the inside threads of the basket. This allows for easy can replacement.

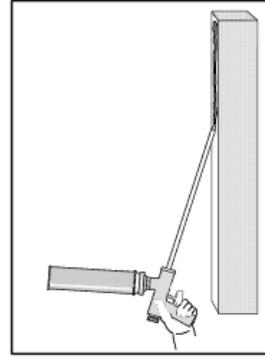


• IMPORTANT •

ALWAYS store the dispensing unit with the can still attached. When storing for short periods of time, turn the gun safety knob completely clockwise.



When reusing after short periods of storage, simply shake the gun and can unit for 1 minute.



Proceed to dispense material.