TECHNICAL DATA SHEET

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Supersedes: 09/18/2017
Ref. #: Tool / Article

Foam Applicator Gun

DESCRIPTION

OSI® Foam Applicator Gun is designed for use only on the OSI® Polyurethane Foam aerosol cans fitted with a standard collar and adapter for dispensing product

Available as:

Item #	Size	Color
1413066	Std. Collar fit	Black
3020883	Std. Collar fit	Black / Blister pack

COMPATABLE PRODUCTS

- OSI® QUAD® Foam Window & Door Installation Foam 21.1 oz. aerosol can (IDH 1866185)
- OSI® QUAD® Foam Gun or Straw 16 oz. aerosol can (IDH 1927125)
- OSI® F38 Drywall Foam Adhesive 21.1 oz. aerosol can (IDH 2971753)
- OSI® Fire Block Foam 21.1 oz. aerosol can (IDH 2292209)
- OSI® Foam Clean 12 oz. aerosol can (IDH 2049536)

NOTE: These foaming adhesives and insulating foam products need to have designated applicators as they cannot be dispensed otherwise. Do not interchange PU foam products with applicators.

INSTRUCTIONS FOR USE

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.

1. Shake can well 15 to 20 times prior to attaching the applicator gun. Align canister and applicator gun. Screw black collar of canister onto the basket adapter of the applicator 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 occasional shaking **during use** is recommended to ensure consistent flow. Keep product temperature above 5°C (41°F) for maximum performance and best flow rate.
3. Aim applicator 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 applicator gun to regulate flow. Clockwise decreases flow, counterclockwise increases the flow.
5. Do not store applicator gun with empty canister attached. 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 applicator gun. Temporary storage must always have a pressurized foam can attached to the applicator gun. Never remove a partially used/dispensed can as they are pressurized.

MAINTENANCE AND CLEANING

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 applicator 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 value from the applicator 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 applicator 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 applicator gun while connected to a PU foam or cleaner canister. Back pressure may cause the valve to fly off from the applicator 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

TROUBLESHOOTING

PROBLEM: trigger will not depress

POSSIBLE CAUSE	SOLUTION
➢ Regulating screw on back of applicator gun is in closed position.	➢ Open regulating screw on back of applicator gun by turning counterclockwise
➢ 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 applicator gun needs to be replaced.

TROUBLESHOOTING

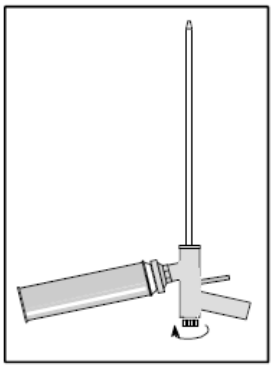
PROBLEM: No product extrudes from the gun applicator when trigger is pulled, or product extrudes too slowly.

POSSIBLE CAUSE	SOLUTION
➢ "Spitting" during dispensing or propellant bursts can be caused by not keeping aerosol can vertical with valve pointing down.	➢ Slight spitting can be expected. Excessive spitting is not normal. Keep aerosol can vertical with valve pointing 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 applicator gun needs to be replaced.
➢ The appearance of the dispensed bead of foam can be greatly affected by the condition of the applicator gun. Larger open celled appearance may result if applicator 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.

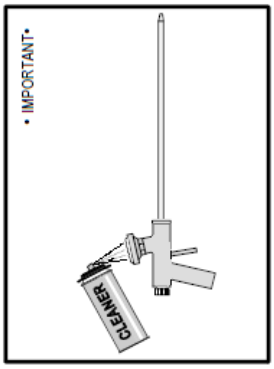
PROBLEM: Properties of dispensed product not acceptable or behaving unusually

POSSIBLE CAUSE	SOLUTION
➢ Cured product at the tip of the applicator gun can partially or completely block the flow of the product	➢ Rub the applicator 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 41°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 applicator gun is stored without can attached, or if it not cleaned thoroughly when changing cans.	➢ Foam applicator 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 applicator 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 applicator gun when it is off:	➢ Remove the canister, release the pressure and empty the foam remaining in the applicator. Clean applicator gun then remove and clean the needle with OSI Foam Cleaner (see above steps 5 and 6). If the applicator gun continues to leak, it should be replaced as parts may be worn

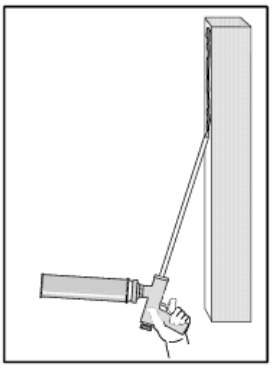
STEEL DISPENSING GUN INSTRUCTIONS



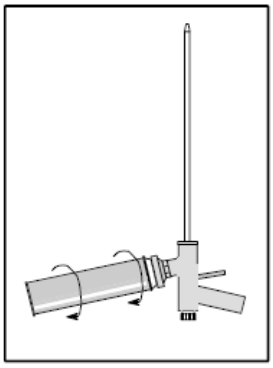
Open the gun safety by turning the knob counter clockwise. This allows the trigger to be pulled back, and the flow to be regulated.



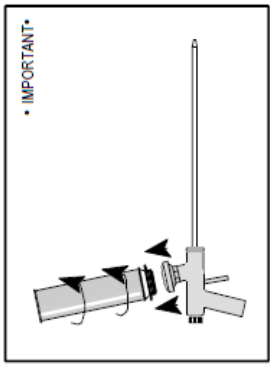
After removing the empty can, gun cleaner should be used to remove leftover foam from the basket. Always clean the basket prior to screwing on a new can. (For longer periods of storage attach the cleaner to the basket and thoroughly flush the interior of the gun.)



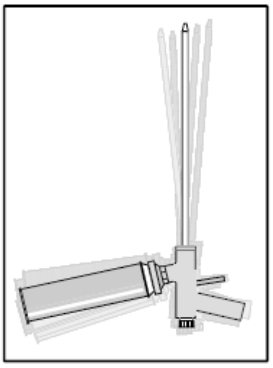
Proceed to dispense material.



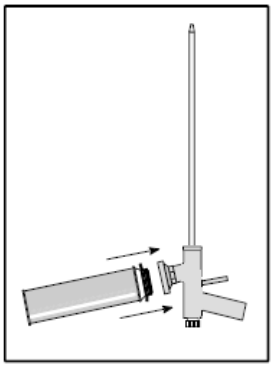
Screw the can into the gun basket, turning clockwise. Do not over tighten.



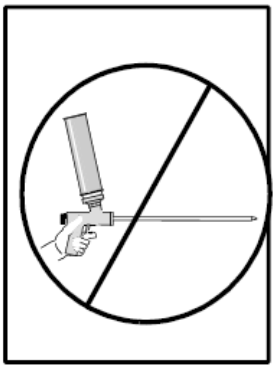
When the can is empty, remove the can by turning counter clockwise. A small amount of foam will be present in the gun basket.



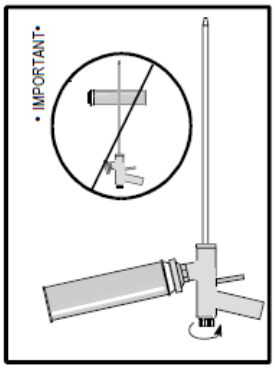
When reusing after short periods of storage, simply shake the gun and can unit for 1 minute.



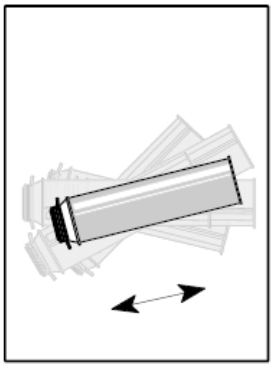
Make sure gun basket is clean. Apply petroleum jelly to inside of basket for easy can replacement. Place the can collar into the gun basket.



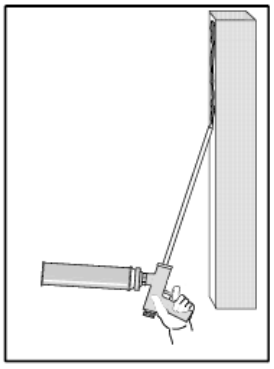
To assure proper mixture and emptying of the can, NEVER spray when the can is in a horizontal or upside down position.



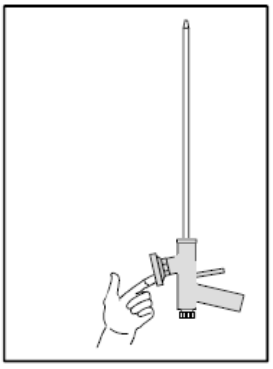
ALWAYS store the dispensing unit with the can still attached. When storing for short periods of time, turn the gun safety knob completely clockwise.



Prior to use, shake for 1 minute.



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



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

STORAGE & DISPOSAL

Note: When storing applicator guns with foam adhesive cans attached, be sure to store the tool with the can valve pointing downwards. Storing the can upright may cause propellant to leak from the applicator and become inoperative.

Store in a cool, dry place. For maximum performance and shelf life, store between 41°F (5°C) and 77°F (25°C). The product can be stored for a maximum of 1 week at -4°F (20°C). Do not store below -4°F (-20°C); below this temperature product valve may spontaneously open, resulting in leakage.

Remember, containers are under pressure. Do not expose to open flame or temperatures above 120°F (49°C). Do not store under direct sunlight. Excessive heat can cause bursting and premature aging of components resulting in shorter shelf life. When containers are empty, vent off any excess pressure. DO NOT discard empty can in garbage compactor. DO NOT incinerate. DO NOT puncture, cut, or weld container.

Recommended method of disposal for unused product: Vent off excess pressure and dispose of in appropriate waste receptacle. Dispose of according to provincial and federal governmental regulations.

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