



**ECOSEAL** ™

## **START-UP AND CLEAN-UP PROCEDURES**

# S T A R T - U P



Centralize the machine to make sure your hose reaches the areas to be sprayed.

## Tricks of the Trade:

Lay a tarp or plastic underneath the machine to speed up the clean-up process.



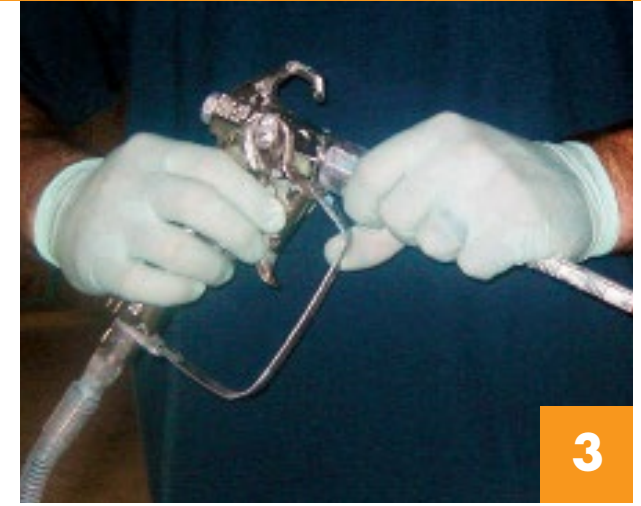
Open a bucket of ECOSEAL Plus™ and place it beneath the sprayer intake.

## Tricks of the Trade:

Prop the sprayer legs up on short blocks. This will make sure ECOSEAL Plus™ can always be drawn into the intake of the sprayer.

## Job Safety:

If this bucket has been sitting in below freezing conditions, make sure the ECOSEAL Plus™ is not frozen. If frozen, place in a warm environment and allow it to thaw on its own. If the temperature is below 40°F, a portable space heater is suggested for best results.



Connect the spray wand extension to the spray gun and tighten with a wrench.

## Tricks of the Trade:

If you will be spraying tight areas, the extension may not be necessary. Continue to Step 4 and connect the tip guard to the gun directly.

# S T A R T - U P



Knauf Insulation recommends using a Clean Shot Shut-Off Valve with a Rac X tip and tip guard for maximum control during installation.

## Tricks of the Trade:

The larger the tip size, the more material the machine is using. Knauf Insulation recommends a 513 tip size.



Connect the clean shot shut-off valve to the extension wand and tighten by hand.

## Tricks of the Trade:

If material is leaking around the connection point, tighten with a wrench.



Make sure the arrow is facing away.

## Tricks of the Trade:

If the gun clogs, wipe the tip clean of excess material and reverse the flow of material by rotating the arrow. Spray for a second and then rotate the arrow back to the original position.

# S T A R T - U P



Plug the machine in, turn it on and set PSI to 800 flushing the machine of any water or mineral spirits into an empty bucket. First flush the discharge tube into an empty bucket by turning the prime/spray valve down. Once ECOSEAL Plus™ flows from the tube, turn the machine off. Turn the prime/spray valve back to the spray position, turn the machine back on and flush the lines until ECOSEAL Plus™ is free flowing from the spray tip.

### Tricks of the Trade:

Keep in mind, contents are under pressure, so use caution when pulling the trigger to avoid the material “exploding” into the bucket.

Wait until ECOSEAL Plus™ flows evenly into the bucket before applying it to the structure.



Once flushed, set the machine for spraying. Start at 2,000 psi for one gun, and move up or down from there.

### Tricks of the Trade:

Depending on the climate, the PSI level might need to be increased slightly.



Unlock and unroll the hose and walk to the appropriate location to start spraying.

### Tricks of the Trade:

Unwind the electrical cord prior to rotating the hose reel.

# S T A R T - U P



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Release the lock on the gun and begin spraying.

## Tricks of the Trade:

Make sure to lock the gun whenever you are not using the gun. This will prevent any accidental discharge of ECOSEAL Plus™.



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Seal all gaps that will allow air to flow through the cavities.

## Tricks of the Trade:

Tricks of the Trade: Start in one room, working from the top of the walls to the bottom sealing all sheathing joints and applying drywall gaskets where necessary. This way you have a system, and are less likely to miss key areas.

# C L E A N - U P



Turn off machine. Make sure you have access to all the tools necessary to clean. Water, adjustable wrenches, a bottle brush...

## Tricks of the Trade:

If you are working on a job site and have the option, warm water works better than cold water.



Tilt the machine back and remove the ECOSEAL Plus™ bucket.

## Tricks of the Trade:

Make sure extension wand is pointed directly into the bucket to prevent unnecessary cleanup. Speed of material flow can be adjusted by turning the PSI knob. Bleed lines until material flow is just a trickle.



Place recirculation discharge tube into the open bucket of ECOSEAL Plus™.

## Tricks of the Trade:

Using the kickstand located beneath the hose reel, tilt the machine back for easier access.

Do not place any partially cured or "skinned over" ECOSEAL Plus™ back in the open bucket.

# C L E A N - U P



Bleed pressure in the pump by turning the prime/spray valve down to the 6 o'clock position and turn on the machine. After a few seconds, material will flow out of the recirculation discharge tube and you can turn the machine off. When the flow of material reduces, turn the machine off and return the prime/spray valve to spray position.

### Tricks of the Trade:

Make sure the tube is not buried in the ECOSEAL Plus™ bucket.



Place the spray wand in the open bucket of ECOSEAL Plus™ and bleed the remaining amount of ECOSEAL Plus™. Use caution as the material is still under pressure.

### Tricks of the Trade:

Make sure extension wand is pointed directly into the bucket to prevent unnecessary cleanup. Speed of material flow can be adjusted by turning the PSI Knob. Bleed lines until material flow is just a trickle.



Clean excess ECOSEAL Plus™ from the outside of the intake tube and place back in open bucket of ECOSEAL Plus™.

### Tricks of the Trade:

Using the kickstand located beneath the hose reel, tilt the machine back for easier access.

Do not place any partially cured or "skinned over" ECOSEAL Plus™ back in the open bucket.

# C L E A N - U P



Unscrew intake tube and run bottle brush through to remove all excess material from the sides of the intake.



Remove the siphon intake from the machine and thoroughly clean the inside and outside.

### Tricks of the Trade:

The machine must be completely depressurized prior to the removal of the siphon intake. Once removed, separate the intake neck (unscrew) from the intake pipe for ease of cleaning.



Remove the suction intake connector (neck) and clean thoroughly. Pay special attention to the three piece assembly inside the intake. The three piece assembly includes a seat, a ball and a guide. Assembly must be completely cleaned leaving no ECOSEAL Plus™ residue. Reassemble as follows:

1. Seat (bevelled washer)
2. Ball
3. Guide

### Tricks of the Trade:

Use the small wire brush that comes with the machine to push the three piece assembly out of the intake connector. A large adjustable wrench might be required to loosen the connection.



# C L E A N - U P



Reassemble the suction intake connector (neck) and tighten to the machine by hand.

## Tricks of the Trade:

You may need to reposition the pump piston in order to reinstall the neck. Do so by cycling the power switch until the black piston is largely retracted.



Hand tighten all connections.



Insert the siphon intake into a bucket of clean water. Place the recirculation tube in a waste bucket and turn the machine back on. Empty the entire bucket of clean water. This process will push the excess ECOSEAL Plus™ in the machine out through the recirculation tube. Once complete, turn the machine off.

## Tricks of the Trade:

The prime/spray valve should still be pointed down. There will no longer be any ECOSEAL Plus™ coming from the tube, only blue water. The more water you use, the cleaner the internal parts of the machine will be. Don't skimp on the water.

# C L E A N - U P



Turn the prime/spray valve to spray mode. Turn the machine on and flush the material from the hoses into the waste bucket. The more clean water you use, the cleaner the hose and gun will be. The last step is to flush the machine with mineral spirits or other storing solution. Use a quart or so and flush the entire amount through the machine and hose. This will act as lubricant preventing corrosion of internal parts.

### Tricks of the Trade:

PSI should be set around 800 psi for this step. Use caution as water will be under pressure.



Clean excess material from the exterior of the machine, hoses, tip, and tip guard.

### Tricks of the Trade:

Clean hose with a damp cloth before winding the hose up.



When necessary, use the wire brush. The Clean Shot Shut-Off Valve should also be broken down occasionally after running water through it to assure it is clean.

### Tricks of the Trade:

Be sure all material is thoroughly cleaned from orifice openings in spray tips.



## Annual Maintenance

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If sprayer will not be used for more than a couple of days, flush the machine with mineral spirits or other storing solution and store under light pressure. This will lubricate all moving parts, o-rings and seals and prevent corrosion. Turn machine off and unplug the electrical cord.

Knauf Insulation recommends a detailed cleaning of the Graco machine on an annual basis. Detach all hoses, disassemble the pump, disassemble the gun and replace all worn out seals and o-rings. Clean all parts thoroughly to prevent machine malfunction.

### Tricks of the Trade:

Procedure is a necessity if sprayer is stored in a cold climate to prevent water from freezing in machine and hoses.



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