



## BIO BASED SPRAY SYSTEMS, LLC

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Spray applicator systems from BioBased Spray Systems provides everything needed for your agency or county to begin applying **BIORESTOR® Asphalt Rejuvenator** yourself!

### **Standard Speed/Pressure Controlled Spray System**

Spray systems are powered by reliable Honda engines equipped with electric start. Mated to the Honda engines are ACE centrifugal pumps supplying on-demand pressure to the system. The electric start and battery used for the spray system supply 12v power to either model of sprayer- keeping these systems from needing to be hardwired to the unit. This allows for quick installation and removal of the units not removing a needed fleet vehicle from commission. Control cables ran to the cab can also easily be more permanently mounted if the spray system is going to be used for an extended amount of time but are temporarily strung along and ran into a window of the spraying vehicle.

Included in **ALL** kits are 1 ½ " hoses for hooking up the tote to the spray system, stainless steel mixer to agitate/mix concentrate and dilute product, (2) tote connectors with caps, both red spray tips for 0.02 spray rate and white tips for 0.03 rate on construction joints/rumble strips, transfer hose to dilute product (1:1), extra pump seal kit, tote return lid, transfer hose and some additional ware part/pieces.

### **Standard Speed/Pressure Controlled Spray System**

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- Speed/Pressure is directly related to the application rate, this cost effective, simplicity model is designed to deliver the product at a constant rate while traveling a constant speed
- The system is set up to set a desired driving speed (ex. 5mph) and correlate the constant pressure(ex.50 psi) on the system to deliver the desired rate. Spray tips are carefully sized to apply the desired amount at a uniform spray pattern for even coverage on the road. Maintaining speed of the truck allows for a uniform treatment of rejuvenator.
- 8.5 foot spray bar with 2 folding 2 foot wings allow for maximum width of 12.5', which folds to an 8.5 foot traveling width when not in use. Also wings break away if any interferences were to occur while treating the pavement- sign posts mail boxes etc
- 50 feet of hand wand for tight areas or touch up work

Advantages	Disadvantages
Inexpensive entry cost of system	Slightest change in speed effects application rate (+ 1 mph decreases application 20% ; - 1 mph increases application rate 20% going down on the pavement)
Simplicity of rate, speed traveling at pressure of system calculated for desired rate	Desired spray width (12.5ft max, 10, 8ect.) is solely dependent on tips in the spray bar. Caps must be put in place to “block off” undesired tips of spray. This results in more manual labor when varying spray widths (example <sup>1</sup> )
One on/off toggle switch in cab runs a valve to apply to product	Nothing to monitor volume in tank or constant pressure so some more careful monitoring is needed
	Vehicle Odometer typically does not justify for speedometer gauge, so alternative GPS monitors must be used such as: IPAD with GPS app, Cell phone with GPS app, or alternative sensor capable of displaying 10 <sup>th</sup> mph

<sup>1</sup> Example: If the desired application was on a roadway 20 feet in width, two passes, down and back, would be the most practical. Adjusting for some overlap two passes with a width of 11 feet or 22 tips would have to be put into the spray bar. If the width was desired to be changed, at a different road or possibility spraying driveway approaches before treating an entire road, only tips to result in the width desired would need to be placed. The rest would need to remain capped off. This width selection is easily changed but does require an operator to manually perform.

\*Pictures of spray system on last page

Included are Vericom V-Sense brake meters and software. This trusted company provides friction meters which allows for before and after friction measurements in order to assure your agency is opening a pavement back up safely.

**Standard Truck Mounted Speed/Pressure Spray System  
Vericom V-Sense Brake Meter w/ GPS location tracing**

**\$ 11,500**

**Plus Shipping**

**FREE Training Videos Provided!**

Optional additional charges include:

- Empty IBC/Tote for initial dilution **\$250.00**
- Set up charges if desired would include:
  - Personal assistance in placement of spray system on truck **Approx. \$250.00**
- On-site training:
  - 4-5 hours of understanding mixing, splitting totes, circulation of product, speed app for electronic device, pressure, valves, hand sprayer, ect. Note: All shown in video. **Approx. \$500.00 per day**

**\*\*\*\*\*Pricing for Set up and Training are subject to vary with location\*\*\*\*\***







If there are any questions please feel free to contact BioBased Spray Systems LLC or your local **BIORESTOR®** dealer!



BioBased Spray Systems LLC

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