



## Output Calculation for SprayWall and the PMC PHX-40 Plural Component Spray Machine.

### PHX-40 Displacement

- 120 Pump (B-side)
  - One (1) pump produces one (1) gallon of material in 16.0256 cycles of the machine.
  - ½ gallon is produced in 8.0128 cycles.
  - That is equal to 0.0312 gallons per cycle.
- 80 Pump (A-side)
  - One (1) pump produces one (1) gallon of material in 23.8095 cycles of the machine.
  - ½ gallon is produced in 11.9047 cycles.
  - This is equal to 0.021 gallons per cycle.
- 120:80 Pumps (A & B)
  - One (1) 120 pump and on (1) 80 pump together produce on (1) gallon of material in 19.9175 cycles.
  - That is equal to .0522 gallons per cycle.

### Output Calculation

- SprayWall weights 11.7 pounds per gallon.
- **11.7 lbs/gal X 0.0522 gal/cycle = 0.61074 lbs/cycle**

### Summery

The PMC PHX-40, with the 120:80 pump set up will produce 0.61074 lbs of Spraywall per cycle. This value is comprehensive of pump displacement when no outside factors are taken into account. Other equipment, atmosphere and situational factors affect the output of the machine in real world applications. It is strongly suggested by Sprayroq Inc. that the applicator perform output tests to accurately define the output of their machine. Machine output can also be affected by machine age, part wear, and maintenance. **Overspray should always be taken into account.**

### Output Test

With the spray machine in proper working order, dispense a set number of cycles (15 to 20 cycles) into a clean five-gallon bucket with a known weight. While spraying, the applicator should insure all over spray in contained within the bucket. Once the set number of cycles is reached, the bucket should be weighed and the buckets dry weight should be subtracted from the total.

Example - .61 lbs/cycle X 15 cycles = 9.1611 lbs.

This test should be performed periodically to ensure accuracy.