

## Use an Applicator Wand to Seal Concrete Decks

### Problem:

*It is a common practice to seal and cure concrete slabs as soon as possible after finishing to retard dehydration. For those slabs that call for broomed finishes, workers must wait until the concrete won't crumble under their weight, requiring workers to walk gingerly across the fresh concrete trying not to leave footprints. The alternative is to pour concrete in lanes/bays narrow enough, that a worker could reach out over the concrete as far as possible from the edge, with a sprayer and cast a mist of sealer over the concrete hoping it is sufficiently covered.*

*Holding a 3 gallon spray can in one hand (weighing about 30 lbs when full) and the spray applicator in the other exposes worker to continual exertion and movement lifting, transferring, reaching and leaning wearing workers out after a couple trips to the supply drum.*

### One Solution:

*Use specially designed applicator wand adapted from a telescoping painter pole, a nozzle (broad, flat, spray pattern), nozzle seat, goose neck and trigger that comes with any 3 gallon type agricultural sprayer commonly seen on construction sites, 50 to 200 yards of hose and an airless pump (Juice Box\* sprayer/applicator).*

*With the use of the Wand, lanes/ bays can be poured twenty feet wide at a time. The spray coming out of the tip can make a four to five foot wide pattern while holding the wand horizontally.*

*The worker is carrying only the pole and what little product is in the tubing. Everything else including the product can be sitting on the deck.*

*The worker stands in an upright position moves along the bay spraying four to five feet wide and extending the pole to reach 20+ feet with very little physical exertion.*





**FACTORS:**

- Forward stooping can contribute to lower-back injury.
- Carrying the 3 gallon spray can in one hand and the spray applicator in the other can cause strains and fatigue.



**FACTORS:**

- Decreases forward bending angle and amount of time spent in stooped posture.
- Reduces lifting and carrying strain.
- Improves worker productivity.



Tips for Use of Tool:

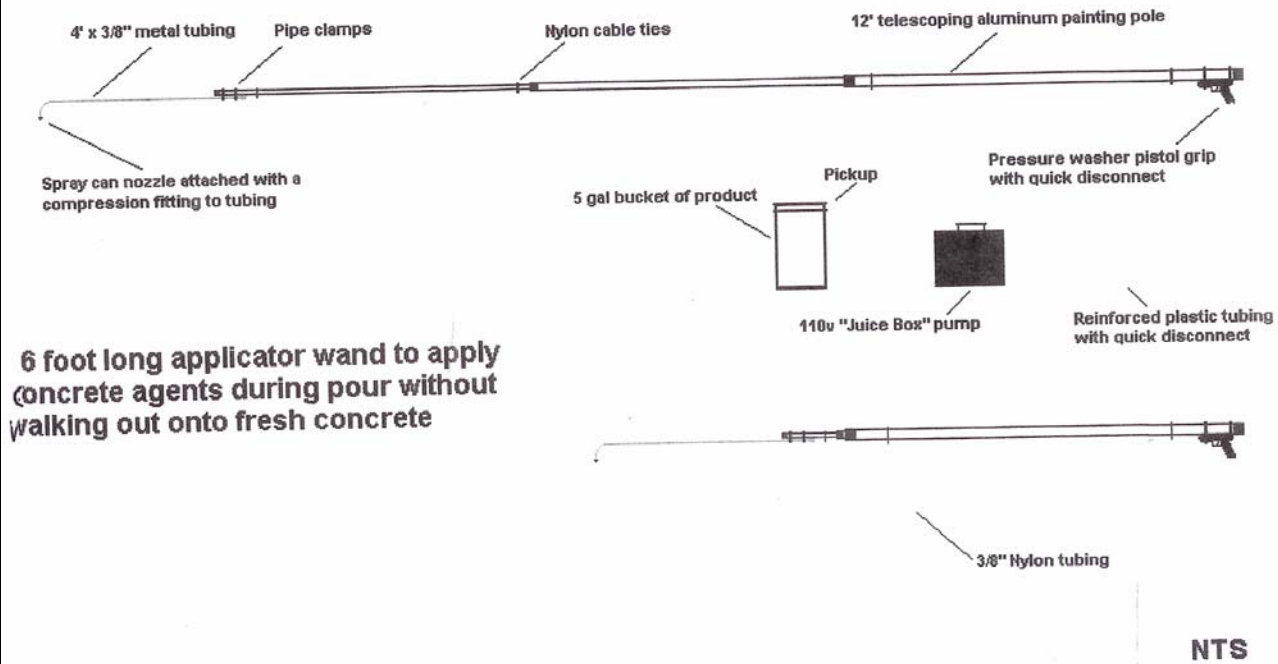
Adding a strap across your shoulders reduces the strain associated with holding the pole horizontally outright when fully extended.

### How Does the Applicator Wand Work?

One hand on the trigger and the other about three feet forward on the handle carrying the pole; the worker walks along the edge of the lane/bay spraying compound on the concrete. Covering a four to five foot wide spray pattern and telescoping to as much as 20+ feet from operator.

### How Much Difference Does the Applicator Wand Make?

Pouring wider bays/lanes costs less in manpower and material for the contractor. Reducing the time and effort to apply sealant saves crew time and minimizes risk of injury



**How Much Will it Cost?**

You can purchase a Juice Box for approximately \$500.00 or rent one for approximately \$25.00 a day from a rental company. It includes the spray hose, trigger gun, wand, and adjustable nozzle.

You can build a Applicator Wand with materials found in any local hardware store or home improvement center for under \$100.00

**How does the Applicator Wand Affect Productivity?**  
Applying sealant to as broad an area as possible with the Wand increases productivity by more than two fold.

**Where is it available?**  
[www.juiceboxllc.com](http://www.juiceboxllc.com)  
BJ's Paint'n Place Inc.  
6528 Capitol Blvd. Tumwater WA 98504  
360-943-3232

**Contact Information**  
**This Tip Sheet was sponsored by CPWR Cooperative Agreement U60/CCU317202**  
**It was produced by Build It Smart and the StewartPrezant Ergonomics Group**  
  
**Special thanks to Scott Beaver, Skanska USA and BJ's Paint, Tumwater WA, and**  
  
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