

**Industry:** Home Building Materials

**Application:** Coating

**Product Descriptions:** Special PVC XA

**Situation:** A glass tile company contacted BETE looking for a nozzle system solution that would increase the consistency, efficiency and automation level of their iridescent application process. The tile company applies aqueous metal salts to tiles with a siphon system utilizing a glass pipette. While being sprayed, the tiles are simultaneously baked at above 2000°F (1093°C). The glass pipettes were constantly breaking, impeding the production process, and they could not be depended on to apply the same amount of liquid to every tile. This existing system was also very labor-intensive.

**BETE's solution:** BETE Engineers developed a special XA to accommodate both the highly corrosive materials and the precision that the customer envisioned for the improved process. The body, air cap, and fluid cap were made of PVC. The shutoff pin in the special internal shut-off cylinder was in Titanium. The o-rings were in Viton with all other components in 303 SS. BETE Technical Services also specified and provided suitable pneumatic pumps comprised of Polypropylene and PTFE. The end result was another happy BETE customer with a significantly improved manufacturing process.

### Technical Questions?

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