

M680™ Mortar Pump Resurfaces Wastewater Transfer Station



CASE STUDY

Challenge:

Commonwealth Epoxy Coatings, Inc., of Newport News, VA, won the contract to resurface a wastewater transfer station for a regional water and sewer authority in North Carolina. The specs called for two cementitious materials of different viscosities.

Commonwealth had never before sprayed the heavier of the two materials and recognized that their existing equipment wasn't capable of handling it. That left them with two immediate options - double their timeline and hand-trowel the material, or rent large, difficult-to-maneuver shotcrete equipment and absorb the extra expense. Neither option appealed to them.

Solution:

Fortunately, Commonwealth had enough time to explore a third option: the Graco M680™ Mortar Pump. The M680 is capable of handling a range of materials of varying viscosities at low pressures (typically 200 to 500 psi/13.7 to 34.5 bar). It is easy to use, which enabled Commonwealth to begin spraying quickly, and the spray provided excellent thickness control, producing a consistent layer of material.

Results:

The project took 30 kits to complete. In terms of Commonwealth's expectations, the Graco M680 exceeded all of them. According to Vice President Jeff White, the Graco M680 cut project time in half, reduced costs by one-third and made it possible for them to spray a new material.



Graco M680 Mortar Pump



Because the Graco M680 is easy to use and maneuverable, Commonwealth Epoxy Coatings, Inc. was able to spray in tight spaces rather than hand-finish, which Commonwealth estimates cut the project time in half and reduced costs by one-third.

SPECIFICATIONS

END USER

Commonwealth Epoxy Inc.

INDUSTRY

Wastewater

APPLICATION

Resurfacing a transfer station

Material Specs:

- Name of Material –
Series 218 MortarClad™
Series 217 MortarCrete™
- Material Supplier –
Tnemec Company, Inc.
- Feed Method – Hopper
- Components –
MortarClad: A + B liquid, C dry mix
MortarCrete: A liquid, B dry mix
- Chemistry –
MortarClad: Epoxy modified
cementitious mortar;
MortarCrete: Cementitious
repair mortar

GRACO EQUIPMENT

- M680 Mortar Pump

CONFIGURATION

- Part Number: 24T834
- Hose: 1 in x 25 ft fluid hose
(25 mm x 12.6 m); .75 in x 10 ft ship
(19 mm x 3 m)
- Applicator: Flex Hose applicator
with #6 Nozzle
- Atomization type: Air atomization

