

Mobile Pipe Lines and Coats Prefabricated Specials for Intake Structure at Cobbs Creek Reservoir in Cumberland County, Virginia

The Cobbs Creek Reservoir is a \$280 million project to construct a 14.8 billion-gallon regional water supply in Cumberland County, Virginia. The reservoir, which will be filled with water from the James River, is intended to meet the region's drinking water needs for the next 50 years. Phase III of the project began in October 2016 with the construction of the two earthen dams, the water intake structure in the James River, a pumping station, and other support facilities. The smaller "saddle dam" will be about 25 feet tall and 1,200 feet long, while the larger main dam will stretch 3,850 feet in length along the north end of the reservoir at a height of 160 feet.



Mobile Pipe can accommodate pipe up to a 40-foot in length, with one bend on the end, having an inner diameter as small as 4 inches and an unlimited outer diameter. Prefabricated specials lined and coated by Mobile Pipe for the Cobbs Creek Reservoir are pictured.



DuraShield™ 210-61 polyurethane is available in two cure speeds that produce a tack-free surface within 15 to 45 minutes following application. The cure speed of polyurethanes significantly decreases production time associated with painting fabricated pieces.

In order to protect the steel piping from corrosion and preserve the intake structure for the design life of the dam, the end-user elected to line and coat the 138 fabricated specials with 20 mils of DuraShield™ 210-61 polyurethane per the AWWA C222 standard. Polyurethanes have excellent adhesion and abrasion resistance. The selected polyurethane is an ASTM D16, Type V, 100% solids (solvent-free), two component aromatic polyurethane coating that contains no volatile organic compounds (VOC's) or extending fillers.

Despite being at a geographic disadvantage for a construction site in Virginia, Mobile Pipe's pricing, quick turnaround, and ability to handle complex coating systems helped secure the project. Mobile Pipe's distinguished SSPC QP 3 quality certification provides the assurance that Mobile Pipe can apply the DuraShield™ coating in accordance with the manufacturer's recommendations and the AWWA C222 industry standard. Above and beyond meeting the minimum standards set forth in AWWA C222, Mobile Pipe utilizes statistical analysis to measure and monitor film thickness and in-process quality control to ensure that its quality system, paint applicators, and paint processes continually improve.



Mobile Pipe's main painting facility is a 36,000 square foot enclosed building. The building is temperature regulated and has 80-foot rollup doors to handle any size of pipe.



With over 40 acres of storage capacity, Mobile Pipe has room to accommodate multiple projects at any given time. The space allows Mobile Pipe to quickly apply, quality-check, and prep orders for shipments.

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