

NLB System Removes Chlorides from Milled Concrete Surface

Mar-Allen Concrete Products Inc. of Ephrata, PA was recently contracted to reseal a large concrete digester tank in a waste water treatment facility. The job required the application of a gunite sealant that required a contaminant-free bonding surface .

The process began by milling 1/2" of old concrete off of the interior of the tank. Tests were conducted and showed that chlorides were still present on the concrete surface. That's when Mar-Allen decided to use High Pressure water as a tool for decontaminating the concrete. Testing was done and it was determined that 12 gpm (45.5 lpm) @ 20,000 psi (1380 bar) was the ideal pressure and flow for the application. Not only did the high-pressure water remove all dust and chlorides from the milled surface, but it also exposed just enough aggregate to provide an ideal bonding surface for the gunite sealant.

The 12 gpm at 20,000 psi that the NLB model 20153D produced was applied to the concrete surface with an NLB 20K SPIN JET®. The SPIN JET was attached to a man lift to provide ease of movement on the vertical surface.

NLB manufactures a wide variety of waterjetting accessories designed to clean and prep surfaces for coatings applications. Contact your nearest NLB Office to discuss your application or to request information



View of the concrete digester tank, midway through the cleaning process.



The NLB 20K SPIN JET is moved along the wall with a man lift, allowing for quick and efficient application of the high-pressure water.

The Leader in High-Pressure Water Jet Technology