



Project:

VDOT Danville Culvert Rehabilitation

System:

Nukote Metal Prime I

Nukote PP300 @ 3 inches

Nukote ST-M at 0.1 inches

Description:

Aging and failing culvert used for continuous water flow with added stormwater runoff and in poor condition requiring a structural (AWWA M28 Class IV) solution. The pipe serves a single access neighborhood, and a full replacement was not possible. Nukote Coatings restoration of one CSP (Corrugated Steel Pipe), measuring 8 feet, 2 inches (8' 2") wide, five feet 9 inches (5' 9") high and fifty feet (50') long was chosen. Restored above pipe using a spray applied combination of products, Nukote PP300 and Nukote STM. The entirety of the

Client:
VDOT (Virginia
Department of
Transportation)

Manufacturer:
Nukote Coating
Systems

Contractor:
Atlantic Industrial
Coatings

Applicator:
Atlantic Industrial
Coatings

Area:
50 feet of D-Shaped
culvert with 8' 2" Span
and 5'2" Rise (1,100 ft²)

Location:
Danville, VA

Date:
2019

Project Profile

pipe's interior was coated with 3.3 inches of product, limiting the invert to 1.7 inches. Nukote PP300 is a structural elastomeric hybrid and Nukote STM is an elastomeric hybrid that provides good impact, abrasion and chemical resistance. The PP300 product is the base layer applied directly to the host pipe. The STM product is applied on the internal surface to provide longer wear and impact resistance.

Both materials were applied manually and are monolithic with no layering. Application was performed without primer, allowing for continued degradation of the host pipe, leaving a fully functional replacement pipe in place with a design life of 50 years. Project includes a manufacturer's warranty from Nukote to VDOT of 25 Years.

