



Project: Lining for Desilting Tunnel of Nan Hua Reservoir

Date: 2018-2019

Description:

After the Typhoon (tropical storm) to dump water, the gate valves should be opened. The client was looking for a lining system that can withstand only for 24 hours per year, and 70% of the coating can be remained under very high water speed of 67 mph (30m/s) flow rate.

To choose the best system, different lining systems from different companies were tested for 240 hours, under water pressure. Other systems were totally removed and destroyed. Nukote's proposed system had only 8% loss (0.59 mm DFT loss, out of 7mm). Nukote's system was the only approved lining system for this project.

This project was unique, the system will be exposed to extreme water flow rates, abrasive content and choke pressures. The system proposed is designed to reduce sediment build up in the reservoirs.

This project needed about 2000 person-time.

Client:

Southern Region Water Resources Office,
Water Resources Agency,
Ministry of Economic Affairs, R.O.C.

Distributor:

Nukote Coating Systems

Contractor Applicator:

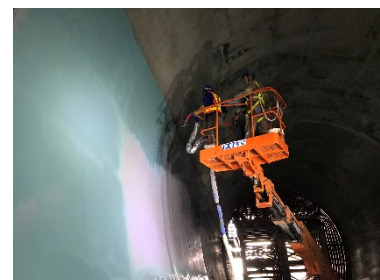
Integral Technology Co., Ltd.

System:

Nukote EP Prime II
Nukote ST-M
Nukote HLT-SR

Area:

323,000 ft² (30,000 m²)



The lining system included the following steps in 280 mils (7mm) thickness.

- 1- Surface Preparation
- 2- Application of concrete sealer, HLT-SR (only on concrete substrates)
- 3- Application of Primer
- 4- Spraying Polyurea, Nukote ST-M, liner

