

THE UNDERGROUND AUTHORITY

POLYUREA LINING SOLUTIONS FOR CULVERTS & INFRASTRUCTURE

Solving a variety of infrastructure issues for new and remedial construction.

A COMPETITIVE ALTERNATIVE TO CIPP, PVC, RUBBER AND OTHER SLIP LINING TECHNIQUES.

Superior Grouting has partnered with Nukote to provide leading industry technology for the installation of Aegis® polyurea linings.

The Nukote Aegis® System combines ultra-fast elastomeric product chemistries with Nukote 360 Ringtech® robotic application equipment to provide cutting edge solutions for both renovation and construction of liquid containment and distribution systems. Nukote Aegis® Liners are suitable for all substrates common to collection, storage, processing and delivery of liquid systems. Aegis® is sprayed in place (SIP) with no loss of functionality at transitions, laterals, risers, tanks or vaults, delivering a completely seamless system.

Fast track installations, without excavation and minimal disruption to traffic flow. The 360Ringtech® robotics quickly deliver consistent liner thicknesses, are controlled remotely, expedite project delivery and significantly reduce confined space manpower costs.



Superior Grouting Spray Liners utilizing Nukote Aegis®, differ depending on the effluent type, abuse levels, abrasion, ground movement, substrate condition and other design variables. The application processes are similar, the liner formulation utilized is variable.



Liner formulations are interchangeable dependent on the effluent, providing versatility unmatched by conventional liners. The Nukote 360 Ringtech® robotic application process is identical, simply changing the elastomeric product utilized allows for use in all possible effluent types.



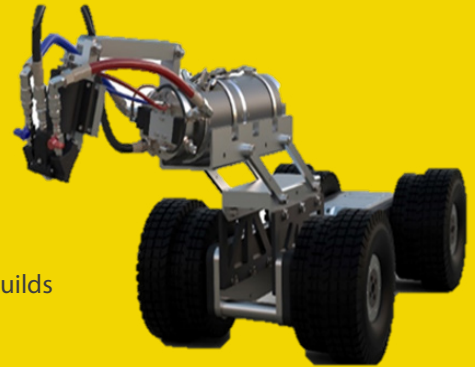
Nukote Aegis® Liners are widely used in North America and Globally.

LINER PRODUCT TECHNOLOGY?

The Aegis® liner system utilizes super-fast gel elastomeric products, that are spray applied in a composite of two products, delivering the physical properties required in underground pipe and culvert rehabilitation. By composite we mean two distinct products with different properties, applied robotically and monolithically (no layers)

These composites provide:

- > The required high ring stress, derived from the structural portion of the composite
- > High erosion/impact resistance, derived from the elastomeric portion of the composite
- > Fast cure, allowing for light traffic in 1 minute and back in service immediately
- > No VOC/ 100% solids
- > Completely inert. Can be disposed on in a common landfill
- > 4-5 second gel/30 second tack free allowing both forward and reverse application at high builds
- > ANSI-NSF approved on most product used



SUITABILITY

Liners are suitable for new construction and rehabilitation on all substrate types.

SIPP (Spray In Place Pipe):

- Culverts
- Pipes

Water systems including:

- Desalination
- Potable water
- Sanitary sewer

Industrial liquid systems including:

- Chemicals
- Process water
- Hazardous waste

Petrochemical liquid systems including:

- Crude oil
- Refined fuels



FEATURES & BENEFITS

- » **Suitable for all substrate types and conditions**
- » **Lower costs compared to conventional liner system**
- » **Offering solutions from basic anti-corrosion to full structural**
- » **Applicable in pipe, vaults, tanks, basins and manholes**
- » **Suitable for use with all effluent types / multiple liner variations**
- » **Direct to substrate, not grouted, minimizing flow reduction**
- » **Capable for pipe diameters from 24" / 0.6m to 160" / 4.1m**
- » **Installs robotically reducing; excavation, traffic control, HSE**
- » **450' / 350m of reach from access point to access point**
- » **Spans damaged, deteriorated or missing substrates**
- » **Extremely durable, flexible and resilient**
- » **Fast application process, minimizing system down time**
- » **Designed and engineered by Nukote**

Superior Grouting Spray Liners are installed to specifications which meet both the client's requirements and relevant government standards including all AWWA variations, ANSI NSF and AASHTO.

- > Meets all AWWA requirements / M28 Class I, II, III (semi structural), IV (fully structural)
- > Meets all AASHTO requirements/HS-20-44 Live Load for Traffic

Superior Grouting is a certified installer for NUKOTE AEGIS® Liners



Who We Are

Superior Grouting is a specialty grouting contractor with capabilities including cellular grouting, slurry grouting, compaction grouting, chemical grouting, polyurethane grouting as well as polyurea lining applications for a variety of industries.

Our goal is to provide skilled technical expertise and customized innovative solutions to meet the most complex geotechnical engineering challenges.

Our expertise has allowed us to build a loyal customer base in the commercial, industrial and government sectors. We aim to provide innovative and efficient solutions for all your specialty grouting needs.

Superior Grouting Services has been in business since 1983. We're based in Houston, Texas, and serve customers on the Texas and Louisiana Gulf Coast, and beyond.

To find out how we can meet your specific requirements, call **281.894.4175** or visit us at **superiorgrouting.com**

SUPERIOR GROUTING



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