



# TUNNELING

## COMPLETE CONCRETE SOLUTIONS

Time-tested experience as a valuable partner in large tunnel projects throughout the Americas has earned Euclid Chemical the reputation as an innovative leader in tunneling and underground products.

Euclid Chemical serves the tunneling industry with the design and manufacture of a full line of products that improve production and performance at every stage of an underground project. For tunnel construction, soil conditioning, annulus grouting and repair, the industry depends on The Euclid Chemical Company to deliver superior products and support.

### TUNNEL CONSTRUCTION SOLUTIONS

Euclid Chemical is involved with all facets of tunnel construction. Products ranging from microsilica-modified patching material, to anti bleed and segregation / viscosity modifying products. These materials are formulated specifically to help tunneling contractors obtain consistent and reliable performance.

### WATERPROOFING

Water ingress is detrimental to any interior space. For tunneling applications, it is critical to maintain a dry environment for the people and processes that utilize the tunnel. For decades, Euclid Chemical has provided waterproofing systems for tunnels and other structures throughout the Americas. In 2011, The Euclid Chemical Company acquired the U.S. rights to Vandex™ waterproofing systems. With the addition of Vandex's crystalline technologies, Euclid Chemical has a waterproofing solution for all concrete and masonry substrates within a tunnel.

#### CRYSTALLINE WATERPROOFING

VANDEX SUPER

HEY'DI K-11

#### CEMENTITIOUS WATERPROOF COATINGS

VANDEX BB 75

VANDEX CEMELAST

TAMOSEAL

#### CHEMICAL GROUTS

DURAL AQUA-DAM

DURAL AQUA-DAM LV

DURAL AQUA-FIL

### FIBER REINFORCEMENT

Euclid Chemical provides micro- and macro-synthetic fibers and steel fibers for concrete and shotcrete reinforcement. These products can be used to control plastic shrinkage cracking of concrete, provide equivalent temperature and shrinkage reinforcing to conventional steel and can also replace limited amounts of steel rebar, add toughness, increase impact and abrasion resistance and improve overall durability.

#### MICRO-SYNTHETIC FIBERS

PSI FIBERSTRAND

#### STEEL FIBERS

PSI STEEL FIBERS

#### MACRO-SYNTHETIC FIBERS

TUF-STRAND SF FIBERS

In keeping with our **ONE SOURCE** approach, Euclid Chemical offers products and services to ensure successful and consistent performance. Products like silica fume, release agents, concrete cleaner, ore pass liner materials, set time extender for on-site addition and light reflective flooring products will help keep tunneling projects on schedule.