

EOPTM  
Dewatering  
System

**electrotechCP**

[www.eopsystem.com](http://www.eopsystem.com)

# EOP™

## DEWATERING SYSTEM FOR BELOW-GRADE STRUCTURES



**U.S. Treasury Building**  
Washington, DC

A 2,700 square foot sub-grade vault was closed-off in 1997 due to unremitting moisture intrusion, pervasive mold and fungus. After several futile injection attempts, EOP™ was installed in early 2000. The vault was reopened two months later as a computer programming lab.

*“We were amazed at how well your system dried out our vault. The indoor air quality is now ideal.”*



**Washington Metro Area Transit Authority (WMATA)**  
Washington, DC

Relentless water infiltration in electrical substations repeatedly caused dangerous power outages. The WMATA had paid close to \$300,000 over the previous 10 years for unsuccessful injections. In 2003, EOP™ was installed and not a single water incident has been recorded since.

*“I feel compelled to tell you how happy we are to find something that lives up to its billing. I’m no longer in doubt; you’ve convinced me.”*



**Ammunition Storage Bunkers**  
Virginia

During heavy rain falls, standing water inside the bunkers on a military base often reached depths of two inches, causing corrosion and loss of mission-essential artillery rounds, fuses and shape charges. Since the early 1980’s, conventional waterproofing technologies were repeatedly used with only limited, short-term success. After the installation of EOP™ in 2005, these structures have been completely dry, and the indoor relative humidity has been reduced by more than 15%.

### Key Advantages of EOP™

- **Applicability** – Suitable for most below-grade structures... all installation and maintenance work is performed from the negative (interior-side) of the structure.
- **Reliability** – Long-term effectiveness surpasses that of any other negative-side system.
- **Durability** – Offers a permanent solution... designed to be the last waterproofing system you’ll ever need.
- **Sustainability** – Uses exclusive green, energy efficient technology to preserve structures and reduce the need for future repairs.
- **Maintainability** – Performance can be monitored 24/7 through the web. Any system maintenance and repairs can be performed promptly and effectively.
- **Affordability** – EOP™ provides the best return on investment among all moisture intrusion solutions.
- **Warrantability** – EOP™ is backed by a true watertight guarantee befitting of its high quality and long-term durability.

### Military Technology

Electro-Osmotic Pulse (EOP™) is the award-winning, negative-side dewatering technology co-developed by the U.S. Army Corps of Engineers. It was funded, validated and implemented by the U.S. Department of Defense for failsafe elimination of below-grade water seepage into acute, mission-critical defense structures. Since 1992, EOP™ has been installed in over 500 moisture-sensitive military structures worldwide – including most recently – underground storage facilities for the Army’s precision-guided munitions.

### Established Science

EOP™ is based on the updated principles of electro osmosis, first discovered by physicist F.F. Reuss nearly 200 years ago. It safely applies low-voltage DC pulses from inside solid concrete or masonry construction to create an impervious and unbreachable electric shield against water intrusion. These transparent energy walls effectively seal off below-grade structures while eliminating the cause of mold and protecting steel reinforcement from corrosion.

### EOP™ System Assembly

The EOP™ System consists of four functional components:

#### 1) Anodes

Probe, mesh ribbon or surface-mounted electrodes on the interior face of the structure to carry the positive charge.

#### 2) Cathodes

Copper-coated rods located outside the exterior face to carry the negative charge.

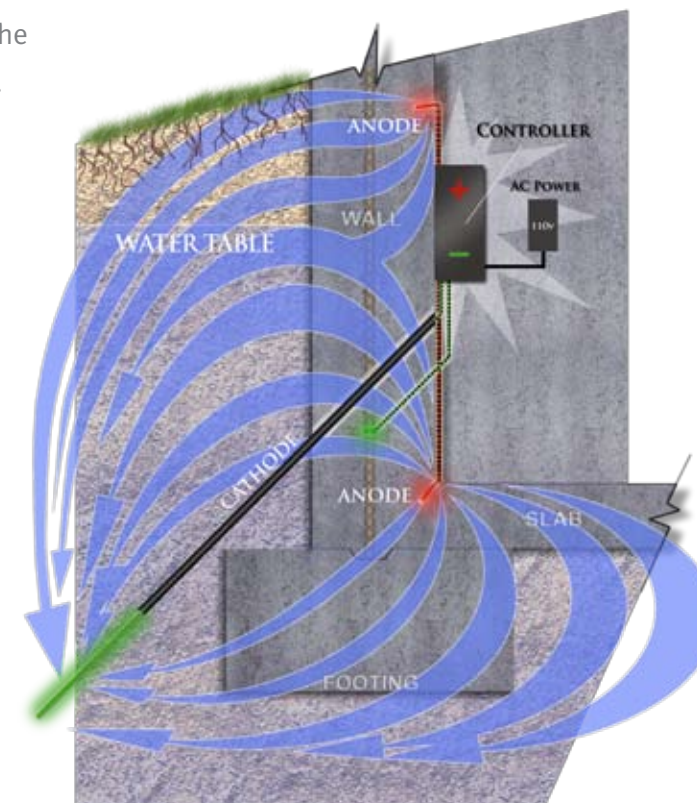
#### 3) Reference Electrodes

Electrodes embedded within the substrate to continuously capture operational and structural data such as moisture levels, concrete temperature, voltage, current and corrosion potential.

#### 4) Controller

A user-friendly computer that monitors and regulates system performance.

Each EOP™ system is designed, engineered and installed by Electro Tech CP. We become responsible for the solution from cradle to grave... something that no other negative-side system can claim.



### A Quantum Leap in Performance

EOP™ was developed to achieve a standard of waterproofing performance never before seen. It starts with uncompromising engineering, meticulous installation and rigorous acceptance testing of EOP™’s ultra-premium components. Next, the EOP™ Controller, in combination with an extensive network of embedded sensors, is empowered with impressive intelligence for monitoring and regulating system operations. In addition, EOP™’s optional wireless connectivity can allow both the owner and Electro Tech CP to continuously inspect system and structural performance and make any necessary adjustments, without entering the building. And for added measure, integrated emergency power supplies and backup parts help ensure that the system operates without interruption. EOP™’s unrivaled dependability gives you the peace of mind you can’t get from any other negative-side system.

### A Warranty Reflective of Our Confidence

Electro Tech CP, with the benefit of EOP™’s higher reliability and durability, can offer you the assurance you need consistent with the structural and geological conditions of the property. You get a single source warranty unmatched by any other waterproofing product or system.

### For More Information

Contact us today for additional information or to discuss your application:

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