MARINE STRUCTURE REPAIR & PROTECTION:

ElectroTechCP™ EZ-Anode Galvanic Cathodic Protection

structural TECHNOLOGIES

Reinforced concrete structures in a marine environment, specifically elements such as pier caps and slab soffits, are highly susceptible to corrosion. Simply repairing the damage without deploying a long-term protection solution will allow corrosion damage to continue to occur and create a cycle of ongoing and more costly repairs.

STRUCTURAL TECHNOLOGIES' ElectroTechCP™ EZ-Anode System is a cathodic corrosion control solution for the long-term protection of concrete suffering from corrosion-induced damage. This system provides corrosion control as well as serving as a barrier against future contamination.

ElectroTechCP™ EZ-Anode System Advantages:

Easy to Maintain & Monitor

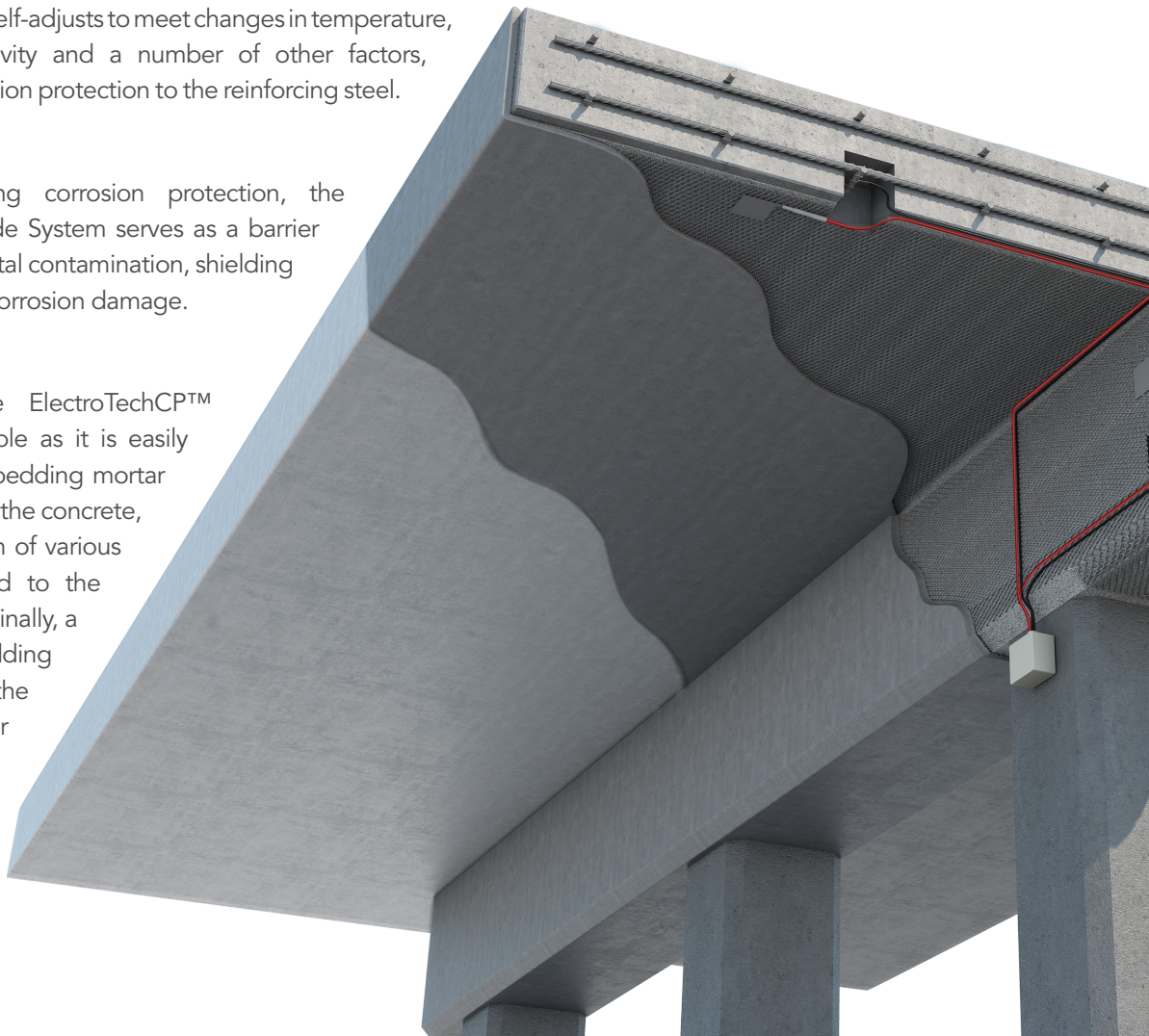
Protective current output self-adjusts to meet changes in temperature, humidity, concrete resistivity and a number of other factors, delivering optimum corrosion protection to the reinforcing steel.

Protects & Shields

In addition to providing corrosion protection, the ElectroTechCP™ EZ-Anode System serves as a barrier against future environmental contamination, shielding the concrete from future corrosion damage.

Easy to Install

The installation of the ElectroTechCP™ EZ-Anode System is simple as it is easily installed on site. The embedding mortar is placed on the surface of the concrete, followed by the zinc mesh of various grades that is connected to the steel reinforcement, and, finally, a second layer of the embedding mortar is applied over the zinc mesh. A top coat or alternative finish system is then applied as desired.



SYSTEM DETAILS:

The ElectroTechCP™ EZ-Anode Galvanic Cathodic Protection System has two primary components*, the binder and zinc anode mesh - which are installed on site to provide up to 25 year** life expectancy for the system.

EZ Anode System Binder

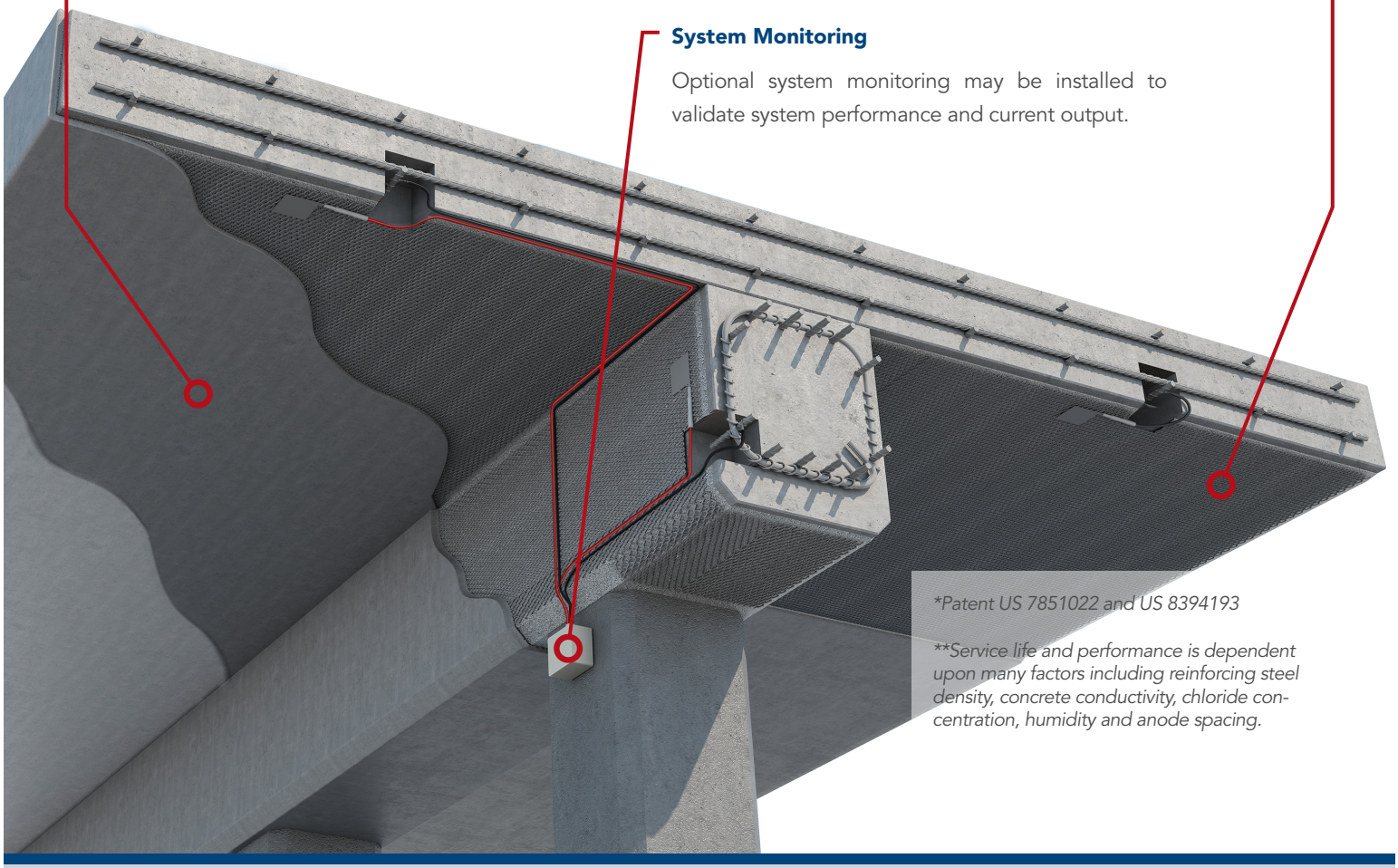
Shrinkage controlled Tecto-Alumo-Silicate Cement (TASC) binder is formulated as a zinc anode embeddment. The TASC binder is a 3-component, non-cementitious, glass fiber reinforced binder in compliance with ASTM C1666 and EN 15455 for use as an embedding and activating matrix for zinc anodes. The zinc mesh is then embedded and a finishing layer of binder is applied to encompass the zinc mesh. The binder forms a matrix with excellent adhesion to concrete surfaces, with a volumetric porosity of >35%, high ionic conductivity, and high durability.

Zinc Mesh Anode

Protective current output self-adjusts to meet changes in temperature, humidity, concrete resistivity and a number of other factors. Zinc mesh is available in various thicknesses and pounds per square foot. (lb/ft^2)

System Monitoring

Optional system monitoring may be installed to validate system performance and current output.



**Patent US 7851022 and US 8394193*

***Service life and performance is dependent upon many factors including reinforcing steel density, concrete conductivity, chloride concentration, humidity and anode spacing.*

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