

CATH-TECH

Corrosion Control Equipment

Cath-Tech™

S-100

**Silver Silver Chloride
Reference Electrode**

S-100 AgAgCl

Permanent Reference Electrode

The S-100 is a true permanent Silver-Silver-Chloride reference electrode designed for permanent installation in reinforced concrete structures.

The S-100 contains a high purity silver rod coated with silver chloride by electrolytic precipitation of silver chloride onto the silver metal surface. The silver-silver-chloride electrode is embedded in a gel containing a known concentration of chloride ions and an anti drying agent. Each electrode comes with a certificate of calibration.



The S-100 has a rugged PVC body and is equipped with sealing gland at the cable entry. The contact between the silver-silver-chloride reference electrode and the concrete is through a ceramic plug of limited porosity. The large area and high pH of the ceramic junction together with a stable electrolyte and gel make the electrode suitable for use in reinforced concrete structures.

The S-100 silver-silver-chloride reference electrode may be installed in break-outs or cored holes in existing reinforced concrete structures or by tie wrapping to the reinforcement in new structures under construction.

The S-100 silver-silver-chloride reference electrodes should be soaked in water for a minimum of 4 hours prior to casting in the concrete structure.

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