

TINKER & RASOR



SPECTRE REFERENCE ELECTRODE INSTALL INSTRUCTIONS



SPECTRE 1B SSC

SILVER-SILVER CHLORIDE
(Ag-AgCl)

**THIS REFERENCE ELECTRODE
HAS A 6 MONTH SHELF LIFE
FROM MANUFACTURING DATE**

1. Unpacking the Electrode

- Remove the plastic shipping bag from the reference electrode just prior to installation.
- Do not pre-soak the reference electrode before installation.**

2. Temperature Handling

- Do not allow the electrode to freeze before installation.** Freezing may cause the ceramic to crack due to moisture expansion.
- Once installed below the frost line, the electrode will function as intended.
- If the electrode freezes after installation, it should resume normal operation after thawing.

3. Electrode Placement

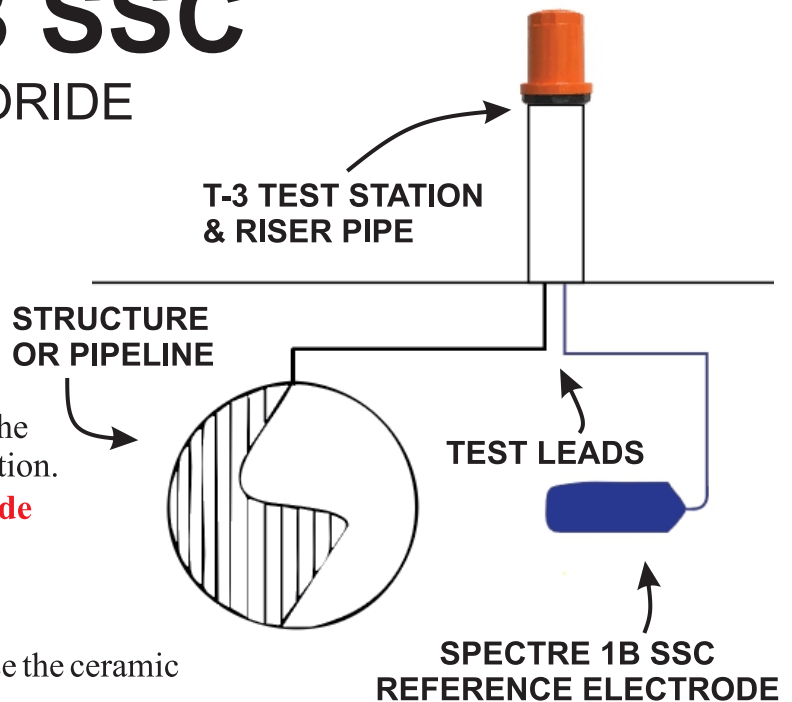
- Install the Spectre reference electrode **below the normal frost line** to ensure consistent year-round performance. Voltage readings can be difficult to obtain in frozen soil due to increased resistivity.
- Install the electrode in a trench or hole, **adjacent and perpendicular** to pipe even with or below the spring line of the pipe or structure—**within 24" of the structure**.

5. Moisture & Backfill

- After reference electrode is placed in hole or trench, **flood with 1.5 to 5 gallons of seawater-equivalent solution**. A seawater mix packet is included with the electrode and should be mixed with 5 gallons of fresh water to create the flooding mixture.
- Immediately after flooding, backfill the hole with native soil only—do not use sand.
- Tamp backfill to ensure good compaction.

6. Electrical Connection

- Connect the reference electrode lead wire and the structure test lead wire to **separate** terminals in the test box.
- Do not connect the leads together—doing so may polarize the electrode and damage its accuracy.**



2828 FM 758, NEW BRAUNFELS, TX 78130

US Toll Free +1(833) 332-1010
Website: www.tinker-rasor.com

International +1(830) 253-5621
E-mail: info@tinker-rasor.com

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