

# **BORIN**<sup>®</sup> *Manufacturing, Inc.*

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## Installation Instructions

For the **Stelth 2<sup>®</sup>** Cu-CuSO<sub>4</sub> Model SRE-007-CUY with “**Moisture Retention Membrane**”

**Remove** the plastic bag from the **Stelth 2<sup>®</sup>** reference electrode just prior to installation. There will be moisture if not actual water in this plastic bag. This is intentional as each cell is saturated with distilled water prior to shipment. *(We do this to give you a reference cell that will instantly fire up when installed. There will be no waiting for several hours, which was the standard operating procedure in the past).*

**Always** try to install the **Stelth 2<sup>®</sup>** reference cell below the frost line. *(In frozen soil conditions, reliable potential readings are almost impossible to obtain. By installing the reference cell below the frozen area, you will be able to take reliable readings all year long).*

**Bore** a hole 2” to 3” in diameter and deep enough so that you can place the **Stelth 2<sup>®</sup>** reference electrode level with or below the spring line (horizontal centerline) of the structure and between three (3) inches and twenty-four (24) inches from the structure.

**Pre-soak** the **Stelth 2<sup>®</sup>** reference electrode in a clean bucket of fresh potable water just prior to installation for 20 to 30 seconds. Place the **Stelth 2<sup>®</sup>** reference cell in the hole, at the correct level and then pour the remaining water in the bucket in the hole over the **Stelth 2<sup>®</sup>** reference cell. *(This procedure is important because we are creating a condition for the surrounding soil and backfill to penetrate and lock into the pores of the **Stelth 2<sup>®</sup>** reference cell, giving you the best chance for a reduced IR reading possible. Also, the backfill will easily compact around the **Stelth 2<sup>®</sup>** reference electrode with this water present).*

**Immediately** after soaking and placing the **Stelth 2<sup>®</sup>** reference electrode in the hole, proceed to backfill with native soil ONLY, Do not use clean / washed sand (unless the sand is the native soil such as in tank bottom installations). After backfilling with the native soil, lightly tamp backfill by hand to ensure good compaction. **(NOTE: There is absolutely no requirement for any other backfill other than the native soil. Therefore plasters, bentonite, etc. are not required nor are they in any way recommended. In fact, they will only add significantly to your IR problems).**

**Run** the wire attached to the **Stelth 2<sup>®</sup>** reference electrode to a separate terminal in your test station. Attach wire to the structure. Run this wire from the structure to another terminal in the test station. **Do not** connect these wires together. (By connecting these two wires together you may possibly create a condition where current is allowed to pass through the reference cell causing its ultimate failure).

### SPECIAL NOTICE

The **Stelth 2<sup>®</sup>** reference electrode, model SRE-007-CUY has been specifically designed to be used in dry soil conditions. The **Stelth 2<sup>®</sup>** will hibernate when the soil dries up and there is no circuit to provide a reading. The cell will awaken when moisture returns to the soil and a circuit can be re-established. The **Stelth 2<sup>®</sup>** reference electrode, model SRE-007-CUY has an indefinite shelf life.

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