

# No Corrosion, LLC

Corrosion Protection Solutions



## Concrete Preservation Technologies

- PatchGuard™
- PatchGuard™ Plus
- PatchGuard™ Ultra

PatchGuard™ anodes are used to protect reinforcing steel in concrete against corrosion. PatchGuard™ anodes are highly effective protecting steel in areas adjacent to repairs where the steel is actively corroding or is at risk of corrosion.

***CPT's PatchGuard™ anodes are distributed by No Corrosion, LLC.  
(NoCo)***



## **INSTALLATION GUIDELINES**

**IMPORTANT:** These guidelines are intended for general information only. Modifications may be required to reflect local site conditions. Contact NoCo for detailed guidance and instructions.

### Equipment Checklist

Drill and 25mm (1") drill bit, multimeter, marker paint, wire brush/file, water spray, paper roll/rag, tape measure, sharp knife, caulking gun, long nose pliers and appropriate PPE.

### Preliminaries

Break-out the concrete in the areas where the PatchGuard™ anodes are to be installed as detailed in the project specifications and industry standard practice.

1230B 52<sup>nd</sup> St West Palm Beach, FL 33407

Phone: 561-570-2994

Email: info@noco.tech

## Installation

1. Identify and mark up drilling locations between the steel bars as close as is practically possible to the edge of the patch.

Note: The minimum depth of the PatchGuard™ anode should be 20mm ( $\frac{7}{8}$ " ) from the concrete surface. The spacing between anodes is typically 400mm (16") to 500mm (20") and will depend on local conditions and steel density. **Consult NoCo for detailed instructions on placement and quantities.**

2. Clean the steel, using a wire brush or file, in the vicinity of the proposed location of the PatchGuard™ anode to facilitate electrical connection.



3. Drill 25mm (1") holes of the required depth at the edge of the patch repair (see table) making sure to avoid contact with the steel. Remove excess dust.

| Product           | Hole Diameter | Hole Length       |
|-------------------|---------------|-------------------|
| PatchGuard™       | 1"            | 2"                |
| PatchGuard™ Plus  | 1"            | $3 \frac{1}{4}$ " |
| PatchGuard™ Ultra | 1"            | $4 \frac{3}{4}$ " |

4. Soak the holes for approximately 15 minutes making sure any excess water is removed using paper roll/rag.



5. Insert DuoGuard PG cartridge into caulking gun. Cut off the end of the nozzle with a sharp knife and squeeze trigger, 1 or 2 pulls, to expel any watery material before proceeding.

Apply DuoCrete PG Mortar. Fill the holes approximately 1/3 of the way up.

Push PatchGuard™ units into the PG Mortar, ensuring that the whole anode surface is covered and that there are no air voids.



6. Connect the PatchGuard™ by wrapping the anode tying wire (minimum 2 times) around the pre-cleaned steel bar and carefully tightening using pliers. **This connection is essential for performance of the anodes.**



Once a successful connection is established, secure the wire to the rebar using two plastic cable ties.



7. Apply a small amount of repair mortar to cap off the anode if the repair is not to be completed within 2 hours.



Concrete repairs can then be carried at any time after anode installation. There are no restrictions on the repair material to be used.

NoCo maintains ample supplies of PatchGuard™ and other cathodic protection materials available for prompt delivery. We can also provide technical assistance, quality assurance and training for a successful installation of PatchGuard™ anodes. Do not hesitate to contact us for any and all your corrosion protection needs. Let us help you increase the return on your investments through asset service life extension and corrosion control.