TEMPORARY ANTENNA BASE Mount

Materials & Tools Needed

- **5-Gallon Bucket:** Standard plastic utility bucket (with lid preferred for stabilization).
- **2-Inch PVC Pipe:** A 24-inch section of Schedule 40 PVC to act as the sleeve.
- **PVC Cap:** A 2-inch end cap to block concrete from entering the bottom of the sleeve.
- **Concrete Mix:** One 60lb or 80lb bag of Quikrete Fast-Setting Concrete Mix.
- **Tools:** A drill with a small drill bit (for drainage), a 2.375-inch hole saw (if using the lid), a mixing stick, water, and safety gear (gloves and dust mask).

Step-by-Step Build Instructions

1. Drill the Drainage Hole

Flip the 5-gallon bucket upside down. Locate the exact injection-molding center point on the bottom. Use a standard drill bit to **drill a 1/4-inch drainage hole** through the bottom center. This prevents rainwater from accumulating in the bucket and stagnating or freezing.

2. Prepare the PVC Sleeve

Take your 24-inch section of **2-inch PVC pipe** and firmly attach the **PVC cap** to one end. You do not need to glue it. Place the capped end of the pipe directly over the drainage hole inside the bucket. Include a Drain Hole in the End Cap that aligns with Bucket Hole.

3. Create a Lid Stabilizer (Optional but Recommended)

To keep the PVC pipe perfectly straight and centered while the concrete cures, use the bucket lid:

- Find the center of the **bucket lid**.
- Use a hole saw to cut a hole matching the outside diameter of your 2-inch PVC pipe (approximately 2.375 inches).
- Slide the lid over the top of the PVC pipe.

4. Mix and Pour the Quikrete

Put on your safety mask and gloves. You can either mix the concrete in a separate container or mix it directly in the bucket:

- **Direct Method:** Pour about 6 to 7 inches of dry **Quikrete** into the bucket around the centered PVC pipe. Add water according to the bag instructions and stir thoroughly with a mixing stick until it reaches a thick, uniform consistency.

- **Filling:** Fill the bucket until the concrete is about 3 to 4 inches below the rim. This leaves room to snap the lid on and keeps the base from becoming excessively heavy.



5. Level and Cure

Tap the sides of the bucket with a rubber mallet or stick to release trapped air bubbles. Snap the modified lid onto the bucket to **lock the PVC pipe into a perfectly vertical position** while the concrete sets. Let the concrete cure undisturbed for at least 24 hours (or per the manufacturer's timeframe if using fast-setting mix).

Once cured, your temporary stand is ready. You can slide your actual antenna mast (such as a painter's pole or smaller metal conduit) directly into the 2-inch PVC sleeve.

