



GROUND INSERT BASE - INSTALLATION

MATERIALS AND TOOLS REQUIRED:

- 1-2 bags of quick set ready mix concrete (please consult with your building supply store for exact quantity)
- 2 gallon mixing bucket
- small hand shovel or trowel
- 1 piece of 2x6, 18-20" long
- 2 - 4" C-clamps
- Carpenters Level

INSTALLATION PROCEDURE:

1. Clamp the ground insert base with the flat top plate to the center of the 2x6
2. Determine exact location for the umbrella base.
3. **VERY IMPORTANT: The umbrella rotation disk 'O' allows for a number of fixed positions in a full 360° Circle. If you need to position and lock the umbrella over an exact spot (e.g. the center of a table), make sure to orient the ground insert sleeve so it allows you to properly lock the umbrella in place with the locking pin 'U' at that specific location.**
4. Once the proper location and orientation for the base have been established, prepare a hole approximately 10x10" square and 18" deep, and fill it with quick-set ready-mix concrete (Sakrete) to about **1" below the surface level**. Make sure to follow the mixing instructions carefully.
5. Push the ground sleeve into the mixture and agitate it with quick, short strokes so the concrete will bond to the metal. Lower the sleeve until the 2x6 rests on the ground surrounding the hole, suspending the sleeve in the concrete. This way it is assured that the top of the plate is flush with the surrounding ground once the concrete has set.
6. Take a water level to check if the top of the 2x6 is exactly level **in all directions !** If it is not, simply use shims or wedges to raise the board where necessary. Complete this step carefully, as the umbrella post might appear to "lean" if the base is not installed plumb.
7. Let the concrete set overnight. Remove the board and make sure not to knock the sleeve hard (concrete takes up to 7 days to cure). Cover the open holes on top of the base plate with masking tape.
8. Fill the remaining space around the top plate with some ready mix. (**Do not** fill the 1" space inside the tube – this space is required to fully insert the locking pin). Tap the concrete in nicely, and finally drag your 2x6, held on edge, across the base with a zigzag motion to smooth the surface. Let it sit for a few hours and then clean off the top plate with a damp cloth. Make sure to let the concrete cure for at least 3 days in warm conditions, and up to 7 days if the temperature is below 50deg. Fahrenheit /10deg. Celsius

