

CarbonBar Safety and Use Instructions

CarbonBar™ is a fully cured, carbon-fiber based solution made of 70% carbon fiber and 30% polyurethane resin. It adds value to countertop applications by providing superior strength, being lightweight, easy to transport, install, and customize. It is used by placing it under the countertop and bonding it to the cabinet and countertop using epoxy adhesive. Installers will find CarbonBar™ easy to use with their existing tools.

Personal Protection Equipment (PPE) Recommendations:

Advisory: These recommendations are based on our experiences.

Users are advised to test and decide what works best for them based on their use case.

Personal Protection Equipment (PPE) Needed: (See below and Safe Use Guidelines)

Gloves: ANSI A9 Working Cut/Abrasion resistant gloves

Mask: N-95 Mask for occasional cutting or Respirator Masks for Continuous Daily Operations

Eye-Glasses: Standard Safety Eyewear

Waste disposal:

Waste peel ply and CarbonBar™ bits/dust can be put in common trash as they are completely solid/inert materials (like saw dust).

Installation procedure:

- (a) Measure the length of CarbonBar™ required and mark with pen (silver ink for better visibility). Also mark spots for drilling holes as appropriate – to connect to cabinet frame.
- (b) Cut CarbonBar™ to correct length using typical saw (we use Carbide tipped blade) drill holes (using Carbide-tip drill bits).
- (c) Prior to assembly, remove peel ply (if applicable) to expose fresh surface (then clean surface with a clean dry cloth).
- (d) Apply epoxy adhesive (follow manufacturer's instructions) to surfaces and place countertop in position. If needed, attach screws – fastening CarbonBar™ to the cabinet frame. Use manufacturer recommended PPE.
- (e) Safely dispose of waste peel ply. Note – please have ventilated space when cutting/drilling. Use common/shop vacuum cleaner to remove dust after cutting/drilling.

For continuous operations - Large Volumes

Main unit operations will be cutting bars to specific lengths and drilling holes. Recommend leaving the peel ply on – until installation at site.

Cutting and drilling will lead to dust. Any potential hazards are mainly due to the dust. Recommend dedicated space for cutting and drilling – with ventilation and proper filtration.

Also, the dust has a range of particle sizes – from 50-400 microns – which can get into the respiratory system. So, it is recommended that operators wear a mask and to have an enclosed area with negative airflow – with an air flow and filter system (e.g. Oneida). The dust can be conductive and can cause electrical short circuits. Therefore, it is important to pull dust out of the ambient air as effectively as possible.