Installation Manual
A reference guide for installing AMCASE® epoxy work surfaces.
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Welcome. This page is a guide to installing AMCASE® epoxy work surfaces efficiently and accurately. Please review the list before getting started.

Quick Steps Overview:
1. Inspect epoxy surfaces for damage
2. Review plans and setup
3. Dry-fit in place
4. Install work surfaces/Fill seams
5. Install Backsplashes/Fill seams
6. Sinks

Tools Needed:
- 2 inch wide masking tape
- 2-part [A & B] epoxy adhesive
- 4 lumber pieces 1.5 times width of cabinet
- 4 or more C-clamps and pipe clamps
- 4 or more equal size applicator sticks
- Cardboard pieces in varying sizes
- Distilled water
- Lacquer thinner
- Level
- Putty knives
- Safety glasses
- Several clean rags
- Hardwood blocking and wire
- Silicone sealant (lab grade)
- Tapered shims

Epoxy resin work surfaces are extremely heavy. Make sure you have help available when moving and lifting work surfaces into place. Protect the work surfaces from scratches during installation by using cardboard or other available materials.
**Tools Needed:**

- Shims
- Epoxy Part A
- Epoxy Part B
- Cardboard

**Installing AMCASE® Epoxy Work Surfaces**

1. Inspect all work surfaces for damage or missing pieces. Next, check cabinets for level before proceeding with installation and adjust cabinet levelers as needed.

2. Make sure sink(s) fit matching work surface cutout(s). Undermount sinks should be installed before work surfaces. See section on epoxy sinks for installation instructions.

3. Dry-fit work surfaces and backslashes according to plans. Make sure surfaces are level where they meet and use shims to adjust as needed. Next, remove splashes.

4. Using separate sticks for each part, scoop the 2-part epoxy adhesive onto a piece of clean cardboard. Mix it with another stick in “as needed” amounts to avoid waste.

5. Using lumber pieces, prop up the first two work surfaces. Apply silicone adhesive to the front and back cabinet top every 24” under the first work surface.

6. Remove the lumber and lower the first work surface into place. Place 2” wide masking tape on each side of seam edge.

**TIP #1**
Place a level across the two work surfaces to ensure surfaces are flat. Use shims to adjust them as necessary.

**TIP #2**
Spread the mixed adhesive out to 1/4” thick to slow the curing process. Thicker mixtures cause heat generation and faster drying times.
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Epoxy Work Surfaces

Tools Needed:

TIP #3
Starting at the back of the work surface, hold the putty knife at 45° angle while dragging the knife toward you.

Apply adhesive to the first work surface’s lower edge where the second work surface will join.

Apply silicone adhesive (see step 5) under second work surface and lower it into place leaving a 1/16” to 1/8” seam between work surfaces.

Continue this same process until you have mounted all of the work surfaces in place.

Press the epoxy adhesive down into the seam using a putty knife. Scrape the excess adhesive off of the tape within 1/16” of the seam line on each side using a putty knife. Remove the tape and use a clean rag with lacquer thinner to smooth the seam line. Afterwards, wipe away any excess adhesive with a clean rag.

Repeat this process for the remaining work surfaces until all of the seams are filled. Allow to dry overnight at +77°.
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**Epoxy Work Surfaces**

**Tools Needed:**
- Epoxy
- Lacquer Thinner
- Hardwood Blocking
- Rags

**TIP #4**
- For walls that are uneven, use shims to adjust back-splashes until their surfaces are flush.

**TIP #5**
- Higher temperatures and higher humidity decreases the working time you have with epoxy. Keep this in mind when blocking and clamping back-splashes in place.

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**Equipment List**

- Tools Needed:
  - Block and clamp back-splashes in place
  - Allow to dry overnight at +77°F to ensure a strong bond.

**Place some cardboard under the back-splashes to protect the worksurfaces.** Referring to plans, dry-fit all back-splashes.

**Apply epoxy adhesive with a putty knife to the bottom edge of back-splash and side edges that will join adjacent back-splashes.**

**Place a few dabs of adhesive on the wall where the back-splash will be positioned and press in place.**

**Use shims if you have uneven walls to create a flush front surface with the adjacent back-splashes.**

**Repeat the process for remaining back-splashes. Use a rag with lacquer thinner to wipe off any excess epoxy adhesive around the base and seams of the back-splashes.**
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Sinks: Top Mounted

Tools Needed:

- Epoxy
- Hardwood Blocking
- Lacquer Thinner
- Rags

TIP #6

Blocking devices consist of a large and small wooden block tied together by a wire passing through the cupsink. Twisting the smaller block creates tension to hold the sink in place and level while it dries.

Sinks made of polypropylene will require roughening of the contact surface to increase adhesion.

All sink rims and work surface cutouts, both in and around the mounting surfaces should be cleaned with lacquer thinner.

18

Lacquer Thinner
Rags

24 hours

19

Top mounted sinks should be inspected for fit, then remove the sink.

1st
2nd

20

Apply epoxy adhesive around the rabbeted cutout. Place the sink back in the cutout, pressing down until the sink is seated properly in the cutout bevel.

21

Lacquer Thinner
Rags

24 hours

22

Fill the sink seam with epoxy adhesive. Wipe excess adhesive off with a rag and lacquer thinner and smooth the seam line. Allow to dry overnight at +77°C.

23

Lacquer Thinner
Rags

24 hours

TIP #6

For cupsink installations, create a blocking device that will hold the cupsink down and level when it is glued in place. Then follow steps 19 – 23.

Wipe excess adhesive off with a rag and lacquer thinner. Allow to dry overnight at +77°C.
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**Sinks: Undermounted**

**Tools Needed:**
- Epoxy Part A
- Epoxy Part B
- Lacquer Thinner
- Hardwood Blocking
- Lab Grade
- Kits

Use the AMCASE “H-frame” support in place of or along with the sink support hardware to raise sink top flush with top of cabinet.

Clean sink and work surface contact areas with lacquer thinner.

Apply an epoxy adhesive to the top rim of the sink. Next, apply silicon sealant at the four (4) corners of the sink cabinet.

Lower the work surface into position and use a pipe clamp or hardwood blocking to hold the sink in place until dry. (Section view shown for clarity.)

Raise the “H-frame” up by adjusting the levelers until it fully supports the undermounted sink. Then, remove the bar clamp. (Section view shown for clarity.)

Add silicon sealant where sink joins work surface overhang. See installing epoxy work surfaces for final steps on sealing work surface seams and backsplashes.

**TIP #7**
Pipe clamps are recommended here due to their removable clamp head. This allows the clamp to pass through the sink opening to hold the sink in place until it dries. If your clamps do not fit as shown, use the hardwood blocking method.
Before installing sink outlets, clean all contact surfaces with lacquer thinner.

Apply 1/4” (6 mm) bead of silicone or epoxy adhesive around the outlet bottom edge.

Lower the sink outlet into the sink’s recessed hole. Rotate the outlet a 1/4 turn to ensure a good seal.

Check that the outlet is centered in the hole.

Under the sink, thread and hand tighten the retaining nut up against the sink basin.

Finally, wipe off excess sealant or adhesive in the sink with lacquer thinner. If removable strainers were purchased, put these in place to complete this portion of the installation.
Notes

On Installing Epoxy Work Surfaces

24”
Distance between adhesive applications for holding work surface in place.

1/8”
Distance between adjacent work surfaces for creating seam lines.

+77°
Ideal temperature that allows for overnight curing of epoxy adhesives.