

Paul Yaffe Originals **STRONGLY** recommends Caswell Tank Epoxy Kits for our Razorback Stretched Tanks. The epoxy kit is an absolute must when preparing any Razorback or custom tank / restoration project for paint. This simple process ensures corrosion protection from today's harmful fuel additives like Ethanol and moisture that can cause rust. Most importantly, Caswell eliminates invisible micro porosities which are undetectable during normal low pressure testing procedures. These micro porosities can allow vapor to escape over time where liquids cannot, possibly causing a paint blister. By taking a few hours and properly installing this epoxy liner, you will ensure a lifetime of trouble free use. Paul feels so strongly about it he'll pay for your Caswell kit when you purchase a Razorback Stretched Tank kit from us! Just simply bundle the two items at the bottom of the Razorback page and Paul will discount your purchase to make the Caswell Kit free! Your Caswell kit will include a 22mm plug and vacuum plug for your EFI check valve hole.

The below instructions is the process that we've developed after treating many Razorback Stretched Tanks.

READ THROUGH THESE INSTRUCTIONS COMPLETELY BEFORE STARTING.

- *You will need 2 gallons of Muriatic Acid, 6 gallons of distilled water, 1 gallon of white vinegar, a 22mm tap, a cup for mixing epoxy, stir sticks, and paper towels.*
- *Optional: Large plastic storage tub that your Razorback tank will fit into (Home Depot, Tractor Supply, etc).*
- *Use rubber gloves and a respirator along with eye protection! Even diluted muriatic acid is caustic.*

Razorback Caswell Tank Epoxy Preparation (New Raw Tank)

1. Install the supplied white 22mm plug into the EFI hole underneath the Razorback Tank and the supplied vacuum plug over the barb.
2. On steel tanks we like to mix an approximately 30/70 mixture of Muriatic Acid (pool acid) and distilled water. (1.5 gallons of acid / 5.3 gallons distilled water) in our Razorback Tank. Make sure the tank is stable, outdoors and top tank opening is level and the supplied nylon EFI plug is in place with the vacuum plug installed. **DO NOT** fill the tank to the top of the EFI door spigot! Leave it 3/4 of an inch or so below to allow for liquid expansion. Pour in acid **FIRST**- then the Distilled Water. Use caution, as the acid solution will rise / expand as it sits. This can be left overnight, 12 hours max.
3. Drain mixture into a safe container and dispose. *We use a plastic tub / storage bin from Home Depot that's large enough for the entire tank to fit in.*
4. Immediately pour one gallon of White Vinegar into the tank- move the tank around to coat the entirety of the inside with vinegar- although this is an acid and not a base- it seems to stop the etching process enough to neutralize.
5. Rinse the tank out thoroughly with water.
6. Remove all plugs and dry tank with compressed air- a heat gun can be used to completely eliminate any water or moisture that air cannot evaporate.
7. Reinstall nylon tank plug.

Razorback Caswell Epoxy Installation (New Raw Tank)

1. One of the biggest mistakes people make is not taking a FULL 2 minutes to thoroughly mix the epoxy! Don't be that guy! Time yourself on your phone and mix a FULL 2 minutes MIX. MIX, MIX! Two whole minutes!
2. The second biggest mistake is people trying to save some product or get two uses out of one kit. Don't be that guy either! Pour the entire well mixed contents into your tank!
3. Once you have poured the resin into the tank, start rotating the tank slowly to begin the coverage process. This is the time to be patient and diligent. Full coverage is important.
4. Turn the tank on its side for a minute, then its nose, then almost upside down. Slowly rolling it in all directions. Imagine the epoxy flowing over the inside tank surfaces covering as it goes. Using a flash light and small mirror can help to see all around inside so you know you have achieved full coverage. It's really not difficult, just take your time and get it right.
5. Achieving full coverage just takes a little time to get the epoxy to flow everywhere. About 20-30 minutes. Look in the EFI door with a flashlight and mirror so you can see all around. Once you've achieved full coverage we like to pour the excess epoxy into a pail, you don't want to leave it inside the tank.
6. Remove white nylon plug before the epoxy finishes the curing process. Wipe out any excess epoxy from threads. Let cure completely (24 -36 hours) A 22mm tap will be required to clean out the threads so that the check valve can be properly installed.

Non Razorback Tank Restoration Tips

- If your tank is painted, cover the painted surfaces with blue or green masking tape to prevent scratches or contact with muriatic acid solution. If your tank has crossovers, plug them with vacuum plugs.
- On really rusty/rough tanks we have had success with overnight soaking, and then draining and pouring in another fresh acid mixture and leaving overnight again.
- Rinse the tank out thoroughly with water- really bad tanks can be pressure washed internally at this step.
- On painted tanks we usually remove the blue masking tape to inspect paint after the etching process and clean the exterior of the tank, then RE-TAPE
- On tanks with crossovers, seal them with vacuum plugs during the etching process.
- Tanks with Crossover Spigots / tubes, after etching, use some scrap wire in them that you can wiggle around during the epoxy step to prevent them from clogging.
- Crossover tanks only- every few minutes you will need to move the previously installed wires- ensuring that the epoxy does not clog or plug the crossovers (As the mixture cures- more movement and eventual removal will take place once 90% cured). A q-tip can be used to keep any threaded holes clean (8-32 top plate threads).
- If there are internal tubes or areas that cannot be coated with normal tank movement-, a stir stick can be used to move epoxy onto those areas, scoop, drip and coat them.
- Models with bolted on EFI top doors will need the 8-32 holes tapped as well.

- If any epoxy has dripped onto painted surfaces- a very light amount of acetone on a rag can remove the epoxy- just be careful as it reactivates clear coat and can ruin paint.





