

FuelCel

Light weight composite fuel tanks

FuelCel Foam is a special open-cell sponge-like material which only reduces the tanks volume by 2-3 percent. When used with our Kevlar fuel tanks, FuelCel Foam helps suppress explosion, absorb some impact energy and most importantly, CONTROL FUEL SLOSHING.

Fuel sloshing in a motorcycle is a significant factor in upsetting the center of gravity due to the violent positive and negative accelerations that are imposed during racing. This sloshing acts like a heavy uncontrolled weight that has to be compensated by your suspension system, something like a liquid monkey constantly playing havoc with your handling. With a half tank of fuel, (common for most sprint races assume 3 gallons), that's 18.6 pounds slamming into the front of the tank when brakes are applied. Then slamming to the side after you have established your lean angle in the corners. Then slamming to the back of the tank when you hit the gas. But due to physics, that 18.6lb can act more like 60lb for that initial moment the fuel sloshes to a stop at the ends of the tank!

Riders report that installing FuelCel Foam gives the impression that they had their suspension done, even to the point of having to adjust their riding style because they were always making minor adjustments compensating for this fuel slosh. FuelCel Foam will enable you to ride more precise lines on the track thereby decreasing lap times. A very small investment to maximize the potential of your new FuelCel.

FuelCel Foam KIT for this tank contains 3"x3" cubes, enough to fill this tank by 75% The reason for this is there are inaccessible areas in the tank generally around the airbox.

INSTALLATION INSTRUCTIONS,

If the FuelCel has the foam preinstalled, note the position of the blocks should you need to remove them. Also, be sure your pump has adequate clearance without any wires or lines being pinched. Keep foam blocks away from the sender capacitor for accuracy.

- Drain the tank completely of fuel.
- Remove tank.
- Remove the fuel pump if it has one in the tank that leaves an opening in the bottom.
- (If your tank does not have a fuel pump opening in the bottom of the tank then you will have to cut the cubes into manageable pieces to fit through the filler opening. Try cutting the cubes into quarters, 1.5" x 1.5" x 3", see cutting note below.)
- Place the cubes first towards the front of the tank without compressing them too much. If you cannot do this by hand try using a wooden dowel or stick to position them.
- Ø **Fuel siphon/level check option- Place a ½"-3/4" dia. Piece of stiff polyethylene plastic tubing from the cap opening down to the bottom near the pump, then continue places blocks around it. This will give you a clear path to the bottom of the tank once the foam is in place so you can use a dip stick and siphon tube to drain tank.**
- Sometimes it is preferable to cut the blocks in half for the tighter areas up front. Use a sharp serrated steak type knife to saw them in half.
- Try to place the blocks in a pattern like books on a shelf left to right building from the front to the rear.
- Remember to leave a space under the filler neck so the fuel coming in has a larger area to be absorbed, you do not want a block right up against the filler opening.
- Leave room for the fuel pump assembly. Do not stuff foam up against the intake filter or starvation can occur.
- To remove the blocks make a pointy barb like a harpoon from a steel coat hanger to stab and hook them, then pull gently.
- Reinstall the fuel pump and tank, now you're ready to refill with fuel.