

3M™ Fire Barrier Watertight Spray Protocol

Items Needed:

- Extension cord
- Pails of 3M™ Fire Barrier Watertight Spray
- Titan® IMPACT™ 640/Graco® Ultra® Max II 595 or larger sprayer dedicated to 3M™ Fire Barrier Watertight Spray
- Paddle mixer
- Drill to fit the paddle mixer
- One or more rolls of paper towels
- 0.019 – 0.031 orifice opening spray tip (e.g. 419-431)
- Three gallons of waterless mineral spirits
- Empty buckets with lids, poly-trash bags

Preparing a Brand New Sprayer for 3M™ Fire Barrier Watertight Spray

Step 1

Prepare Spray Gun

- a) Remove filter from the inside of the spray gun,
- b) OR use a bypass gun.
- c) Remove the gun from the hose using two wrenches.
- d) Pop off the hand guard on the bottom of the gun.
- e) Pull out the filter from the middle of the handle.
- f) Reassemble gun, put handguard back in place and tightly reattach to hose.



Step 1a



Step 1b



Step 1c



Step 1d



Step 1e

Step 2

Prepare Sprayer Unit

- a) The second filter you need to remove is in the upright cylinder.
- b) Loosen the cylinder by hand. Once open, remove the filter. Screw the cylinder back on.
- c) The final filter that needs to be removed is the rock guard located on the draw tube.



Step 2a



Step 2b



Step 2c

Preparing a Brand New Sprayer for 3M™ Fire Barrier Watertight Spray (cont.)

Step 3 Pour 1 gallon of waterless mineral spirits into a clean empty bucket. Running mineral spirits through the sprayer removes the pneumatic fluid that is in a brand new sprayer.

Step 4 Plug in and turn on the sprayer with pressure dial set to 0.



Step 5 Place the draw tube of the sprayer into the pail of waterless mineral spirits.

Step 6 Put the priming hose in the pail of mineral spirits.

Step 7 Make sure the black lever on the side is pointing down, increase the pressure and run the sprayer on prime for five minutes.



Step 8 Switch the black lever on the side to the forward position. This allows the mineral spirits to run through the gun. Hold down/tie off the trigger of the spray gun so that it sprays back into the mineral spirits it is drawing from. Keep the pressure low and watch where you are spraying so you don't spray mineral spirits everywhere. Recirculate the mineral spirits through the gun and hose for 3–5 minutes.



Step 9 Now the sprayer is clean and prepared.

Day 1 of Spraying 3M™ Fire Barrier Watertight Spray

Step 1	Do Steps 3–9 of “Preparing a Brand New Sprayer for 3M™ Fire Barrier Watertight Spray”.
Step 2	<p>Open a pail of 3M™ Fire Barrier Watertight Spray and observe the spray inside. If there is a “skin” of cured material on top of the fluid spray, throw out the skin. Cured material should never run through the sprayer. If there is no “skin”, proceed to the next step.</p> <p>Note: There may also be greenish-yellow pools of liquid on top of the spray. This is a normal separation of the plasticizer which can be mixed back in with a drill and paddle mixer. Mixing of the 3M™ Fire Barrier Watertight Spray is recommended even if no separated plasticizer is observed.</p>
Step 3	Place the draw tube of the sprayer into the pail of 3M™ Fire Barrier Watertight Spray.
Step 4	Make sure appropriate tip is installed in the sprayer gun.
Step 5	Make sure the black switch on the side of the sprayer is pointing down and the recirculation tube is draining into a separate waste container. Prime sprayer until 3M™ Fire Barrier Watertight Spray begins coming out of recirculation tube. Immediately place tube back into 3M™ Fire Barrier Watertight Spray pail.
Step 6	Put sprayer back into spray mode (black switch flipped to side) and increase pressure to ~2500 psi. Spray excess mineral spirits into separate waste container until 3M™ Fire Barrier Watertight Spray begins to come out. You are now ready to begin spraying. Install mineral wool and 3M™ Fire Barrier Watertight Spray according to the UL or Intertek tested and listed system details.
Step 7	If you lose the fan pattern or if sputtering occurs while spraying, rotate the spray tip 180° and spray to clear it out. If spraying stops all together and will not clear out, switch the sprayer back into prime mode and allow the spray to recirculate for a few minutes. If the material still will not spray, switch the sprayer over to the mineral spirits to try to clear out any potential blockages that may have formed — do not leave the sprayer with material in it.



Cleanup

Step 1	Remove the pail of 3M™ Fire Barrier Watertight Spray from the sprayer.
Step 2	Wipe excess spray off the pickup and recirculation tubes.
Step 3	Fill a clean bucket with 1–2 gallons of waterless mineral spirits.
Step 4	Place the draw tube of the sprayer in the pail of mineral spirits.
Step 5	Make sure the black switch on the side of the sprayer is pointing down and the recirculation tube is draining into a separate waste container. Prime sprayer until mineral spirits begins coming out of recirculation tube. Immediately place tube back into pail with clean mineral spirits.
Step 6	Flip the switch to the side and spray the mineral spirit/spray mix out of your gun and into your dirty empty bucket until the gun sprays clear liquid.
Step 7	Place the spray gun in the clean pail of mineral spirits that the sprayer is currently drawing from. Hold/tie off the trigger of the spray gun so that the mineral spirits are recirculating through the gun, hose and sprayer. Watch your pressure and where you are spraying so you don't spray mineral spirits everywhere. Continue this for five minutes.
Step 8	Remove the gun from the mineral spirits and close the tip. This prevents air from entering the hose while it is sitting idle and curing any missed material in the sprayer, gun or hose.
Step 9	Turn off the sprayer, unplug it and coil up the hose.



Disposal of Mineral Spirit/Silicone Spray Waste

3M™ Fire Barrier Watertight Spray and mineral spirits cannot be disposed of in a normal dumpster **in liquid state**. You can dispose of this waste at a chemical drop location or check with your local authority having jurisdiction.

Day 2 of Spraying

3M™ Fire Barrier Watertight Spray

All of the same steps as Day 1. Check the draw tube of the sprayer first to make sure no cured material collected at the bottom of the tube. Remove any cured material.

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