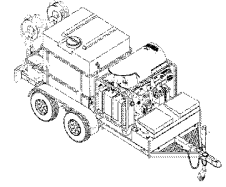


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Dedicated to solving your cleaning problems.



December 20, 2014

Steve,

You recently asked me if a roof steamer could be used with a trigger gun. The answer to your question is: No, a proper roof steamer cannot function correctly with a trigger gun as damage to a roof will be almost unpreventable.

As water heats to about 260°F the water droplets change and become very gentle, at that point and hotter they are more like a gentle cloud of heat we direct to melt ice. Cooler temperature even at the low pressure of the steamer can easily damage a roof.

When a trigger gun is released the water flow will stop, the energy in the hoses will quickly dissipate, the resulting spray will not be hot enough to change into the gentle steam and will cause damage.

In order to test this we used a 2.5 GPM steamer with 100 feet of hose strewn about our parking lot with an outdoor temperature of 15°F. We used insulating Styrofoam spray painted black as our test medium to check the abrasion of the spray pattern.

The machine was run and reached operating temperature, we removed no paint from with the nozzle next to the painted Styrofoam.

We released the trigger gun for one minute. We then sprayed and removed paint and gouged the foam at a distance of about one foot.

It took approximately 45-55 seconds of time before the temperatures were adequate to produce the gentle steam again.

Conclusions:

The use of a trigger gun on a roof steamer will cause the steamer to produce spray that could easily cause damage to roofing.

The use of the trigger allows water to cool and that would also lead to equipment problems if ice begins to form inside the lines.