



About TPO

Thermoplastic Polyolefin (TPO) roofs consist of a single-ply membrane and have an expected life of 15-20 years. But they rarely last that long without repairs, which become temporary solutions that don't completely fix the problem. On TPO roofs, the heat-welded seams can rip apart, flashings can fail, and the membrane can become punctured, allowing water into the building. These leaks, if not repaired, will break down the TPO and the underlying decking rapidly. Many TPO roofs never reach their expected life span because building owners grow tired of dumping money into constant repairs that never seem to work.



The Repair to End All Repairs

A Silicone Roof Coating Restoration (RCR) from Progressive Materials is the optimal solution to a failing TPO roof. By applying a thin layer of silicone directly to the TPO roof surface, you can completely restore your roof, eliminating leaks and repairs for up to 20 years. Our silicone creates a completely seamless membrane on top. By removing seams from the roof, you are removing the main water entry points on TPO roofs.

Applying PM Silicone to a TPO Roof

One of the key benefits to PM Silicone is the ease of application. After you thoroughly powerwash the existing TPO membrane, you can completely restore a failing TPO roof in four easy steps, seen on the next page.



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Roof Coating Restoration Over TPO Improve Performance, Extend Roof Life

1) Prime the TPO

In order to achieve a PM warranty, PM's P-151 Single Ply Primer will be your first step after cleaning the roof. This primer is only necessary if adhesion tests are not showing great adhesion. If necessary, a thin coat of P-151 is applied very quickly with a pump sprayer prior to silicone application.



2) Seam Preparation

It is best practice to coat all seams on the roof before applying the silicone top coat. If the roof is in bad condition, butyl fleece tape will be applied first and then coated with a thin layer of silicone. If the roof is in ok condition, you can simply coat the seams with a thin layer of silicone.



3) Flashing Preparation

On roofs with air conditioners, vents, drains, etc., you'll need to prep these prior to the top coat as well. These penetrations will break down before the majority of the roof, similarly to the seams. Our flashing grade silicone can be applied around these areas or, fabric and silicone can be used when these areas need even more protection.



4) Apply the Top Coat

After all the seams and penetrations have been prepped, it is time to apply the top coat. PM silicone can be rolled on using a nap roller or sprayed on using a heavy duty spray rig. The thickness of the coating will depend on what kind of warranty the building owner is looking for. On TPO roofs, the max thickness you will apply is 35 mils.



Additional Benefits

In addition to creating a seamless, watertight membrane on your TPO roof, a PM Silicone RCR can help by increasing UV stability - lowering the buildings internal temperature and the energy bill. PM Silicone offers environmental benefits by eliminating the need for a roof tear-off keeping tons of waste out of landfills. Finally, the cost savings can be huge by using PM Silicone. A roof restoration typically take about half the time of a re-roof and only requires half the crew. This time savings is passed down to the building owner, making PM Silicone a cost-effective solution.



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