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To: GAF Commercial Sales, GAF Commercial Contractors, Field Services, Design Services, CARE
From: Chris McGRoarty- Director TPO Systems and Adhesives
Date: 05/22/2026
Subject: Adhering TPO Over Existing TPO Roofs

Overview: Over the last 25+ years, TPO roofs have become one of the most popular systems used for low slope commercial applications. As some of these roofs begin to approach the end of their service life, recovering the existing roof may be a cost effective option for building owners.

This **TechNote** provides GAF's recommendations for adhering new TPO over existing TPO roofs, regardless of whether the existing roof was manufactured by GAF. Please note that any Warranty or Guarantee issued by GAF for a recovered roof will only protect the GAF materials installed over the existing roof; the existing roof itself will not be covered.

- Adhered, mechanically attached, and induction welded roofs can be recovered by adhering approved GAF TPO membrane directly to the aged TPO roof using approved adhesives.
 - **Approved TPO membranes:**
 - 60 mil – 80 mil EverGuard® TPO
 - 60 mil – 80 mil EverGuard Extreme® TPO
 - **Approved TPO adhesives:**
 - EverGuard® TPO Quick Spray Adhesive
 - EverGuard® TPO Quick Spray LV50 Adhesive
 - EverGuard® TPO 1121 Bonding Adhesive
 - EverGuard® TPO 3 Sq Low VOC Bonding Adhesive
 - EverGuard® TPO 6 Sq Low VOC Bonding Adhesive
- Guarantees of up to 20 years are available for recover systems, provided all **new** roofing membrane, flashings, adhesives, screws and plates are sourced from GAF.*

Determining Eligibility

- The existing TPO roof must be at least 5 years old. For TPO roofs fewer than 5 years old, please contact GAF.
- See "Field Guidelines" in the GAF [EverGuard® TPO/PVC Adhered Roofing Systems Manual](#) for additional details.
- **Pre-Installation: GAF will evaluate the eligibility of your GAF Notice of Award (NOA) registration for the project and GAF may require additional specialized roof system preparation.**
- A moisture scan is required to identify any trapped or existing latent moisture. (Any subsequent installation requires the removal and replacement of any existing wet roofing materials in accordance with GAF specifications.)

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For NOA Registered Eligible Roofs

- GAF Field Services and the Roofing Contractor must conduct an initial site visit prior to substrate preparation.**
- See “Field Practices” in the [EverGuard® TPO/PVC Adhered Roofing Systems Manual](#).
- **Roof Preparation Guidelines for recovering of an existing TPO roof:**
 - Powerwash the existing roof with a maximum of 2200 psi using a fan-spray tip/nozzle. GAF Field Services will provide guidance for cleaning areas that are heavily contaminated. Required for cleaning:
 - Zep® industrial degreaser
 - A multi-use pump sprayer
 - Low speed floor machine
 - White polishing pad (the industry standard is defined by color)
 - A hose to water down roof and rinse off the dirt
 - **Directions for cleaning:**
 - Only clean the section of the roof that you intend to cover on that day
 - Water down the roof with the hose
 - Spray the industrial degreaser on the wet area
 - Run the low speed floor machine with the white polishing pad over the area the degreaser was applied on
 - As the low speed floor machine removes the dirt, hose down the roof directing the dirty water to a drain
 - Wait for the roof to dry prior to installing the new roof
- **Adhesion test by the Roofing Contractor:**
 - Ensure substrates are dry, smooth, free of contaminants, and in sound condition to receive TPO in adhesive application.
 - An adhesion test is required for all adhered TPO recover applications. To conduct an adhesion test:
 - Prepare 5 (five) 2" x 12" sections of the EverGuard® TPO.
 - Cover 8" of the 12" with adhesive as well as the existing roof that the TPO will be adhered to.
 - Place the exposed side onto the roof deck and roll into place with uniform pressure using a 2" silicone hand roller.
 - Let the samples remain in place for a minimum of 2 hours. Use a handheld measuring scale, connected to the middle of the 4" unadhered portion, to pull up on the sample slowly and continuously, lifting 90 degrees from the roof surface until the sample is completely separated from the substrate.
 - Record the applied force in pounds, as well as the mode of failure.
 - Favorable adhesion will result in separation within the adhesive, which will leave deposits on the substrate and possibly remnants of the substrate.
 - **A peel strength minimum of 9 lb. per 2" should be achieved on all installed deck types. If not, contact designservices@gaf.com or 877-423-7663.**
 - GAF must conduct a follow-up site visit after substrate preparation but before new roof installation.**

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Additional Guidelines

- The new GAF TPO roof requires standard supplemental screw and plate attachments at all curbs and penetrations.
- Install new roof, all new TPO membrane flashings and new metal flashings where needed.
- Replace, as applicable, walkways, lightning protection and similar pre-existing accessories, etc. to match the previous installation.

GAF can be contacted at 877-423-7663. The GAF website is a great resource for most questions you may have or for additional information you may require. Please visit www.gaf.com to find the latest information on our products, installation and warranty terms.

Please let us know if you have any questions.

designservices@gaf.com

* For qualified systems only. Additional requirements apply. Contact GAF for more information. See sample warranties and guarantees, available at gaf.com, for complete coverage and restrictions.

** This site visit is for the sole purpose of determining whether an adhered TPO recover of the existing roof would be eligible for GAF guarantee coverage.