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Technical Advisory Bulletin

To: GAF Commercial Sales, GAF Contractors, Field Services, AIS, CARE
From: Technical Services
No: TAB-C-45

Wrinkles on Mechanical or RhinoBond® Attached Roof Systems

What Is The Concern?

EverGuard® TPO and PVC roofing systems installed by **mechanical attachment** or the **RhinoBond® attachment** may exhibit wrinkles in the field of the membrane after installation. While membrane wrinkles can be indicative of structural movement, they are typically caused by expansion and contraction due to temperature/thermal changes throughout the year.

Can Wrinkles Affect My Roof?

Wrinkles in the field of the sheet that are less than 1" (25 mm) high when pressed together generally do not compromise the integrity of the roofing system. Attempting to repair wrinkles that are less than 1" (25 mm) high may jeopardize the integrity of the roof and create other unforeseen issues. Wrinkles in the field of the sheet that are greater than 1" (25 mm) high may impede the flow of water drainage. Depending on the severity and cause of those wrinkles, they may need to be repaired.

How Do I Repair?

When repairing the membrane, accumulated dirt or other contamination must be removed by cleaning the membrane. Use the chart below.

Types of Contamination	Membrane Cleaner	Method	General Cleaning Tips
Light	TPO: EverGuard® TPO Seam Cleaner or EverGuard® CleanWeld™ Conditioner (low VOC) PVC: EverGuard® PVC Membrane Cleaner	<ul style="list-style-type: none">• Clean with cloth moistened with membrane cleaner.• Allow solvents to flash off.	<ul style="list-style-type: none">• Rinse area thoroughly with clean water.• Use white terry cloth; avoid use of industrial cleaning cloths.
Dirt-Encrusted	TPO: EverGuard® TPO Seam Cleaner or EverGuard® CleanWeld™ Conditioner (low VOC) PVC: EverGuard® PVC Membrane Cleaner	<ul style="list-style-type: none">• Scrub with low-residue cleaner (409®) using a mildly abrasive pad.• Clean with cloth moistened with membrane cleaner.	<ul style="list-style-type: none">• Colored cloths can transfer the dye in the cloth to the area to be welded and should not be used.
Weather or Oxidized	TPO: EverGuard® TPO Seam Cleaner or EverGuard® CleanWeld™ Conditioner (low VOC) PVC: EverGuard® PVC Membrane Cleaner	<ul style="list-style-type: none">• Allow solvents to flash off.	<ul style="list-style-type: none">• Do not overuse cloths; dispose of when dirty.• Use scrub brushes sparingly as they can damage the membrane.
Chemical Based	<ul style="list-style-type: none">• Not recommended; contact GAF.	<ul style="list-style-type: none">• Remove and replace membrane.	<ul style="list-style-type: none">• Drying time for cleaner increases 3-5 minutes for every 10F drop in temperature.

The wrinkle must be cut out so that the membrane lays flat. Repair the membrane with a piece of membrane identical to the roof surface. The membrane patch should extend a minimum of 2" (51 mm) beyond the boundaries of the cut in all directions for proper welding.

If the wrinkle occurs through EverGuard® Flashing Tape or EverGuard® Detailing Membrane, like material must be used for repair after the field sheet is repaired. Similarly, if a wrinkle passes thru a preformed flashing, it must be replaced with a new preformed accessory after the wrinkle is repaired.

Important: EverGuard® cover tape products or detailing membrane cannot be used to repair the field membrane. EverGuard® cover tape products or detailing membrane should only be used for cover tape or detailing membrane repairs.

Questions?

GAF Technical Services Can Assist You... with these and other questions you may have regarding your new roof installation. Technical Support Services can be contacted at 800-766-3411. The GAF website is a great resource for just about any question you may have or for additional information you may require. Please visit www.gaf.com to find the latest information on our products and their installation.

Important: This document supersedes any prior GAF Technical Advisory Bulletins on this topic. Please always check www.gaf.com to make sure you have the most up to date information.