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# TECHNICAL ADVISORY BULLETIN

To: GAF Commercial Sales, GAF Contractors, GAF Field Services

From: Technical Services Department

**Subject: Wrinkles on Mechanical or RhinoBond® Attached Roof Systems**

Issued Date: 05/18/2018

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## 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.

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

- 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 pre-formed 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.

***Will Wrinkles Affect  
My Guarantee  
Coverage?***

**No...** the EverGuard® Diamond Pledge™ (NDL) guarantee will be in effect per its terms and conditions even if wrinkles are present.

***Where Can I Get  
More Information?***

**GAF Technical Services Can Assist You...** with these and other questions you may have regarding your new roof installation. GAF Technical Services can be contacted at **800-ROOF-411** (800-766-3411). Also, 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](http://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](http://www.gaf.com) to make sure you have the most up to date information.