Roofing: The Good, Bad, & Ugly

Polyurea is a great product for roofing until it isn’t

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Roof-ing

*Material for constructing a building’s roof*

*The process of constructing a roof or roof*
To roof or not to roof that is the question. As markets expand and the limits of technology shrink we begin to see opportunities all around us. If you’re a chemical or equipment manufacture, distributor or supplier, consultant or contractor...you each have a part in the beginning and the end of a project.

When it comes to roofing materials, technology hasn’t always been at the forefront. It has been more about simple and cheap... but that is changing rapidly, especially in urban settings. The roof is now an expensive piece of real estate that host many parties, pools, and gardens.

Governmental regulations have been changing pushing for lower VOC’s. Some cities make it close to impossible to use torches and kettles.

Designers and developers have pushed the boundaries of construction adding very complicated design features and requirements.

All of these changes are affecting the materials being used to “roof” the structure. Many of the new design features and requirements are exceeding the limitations of historically “go to products”.

I’m going to take you thru some of the demands that are changing the landscape of the roofing industry and how polyurea falls into that world for the Good & the Bad!
<table>
<thead>
<tr>
<th>Year</th>
<th>Event</th>
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<tbody>
<tr>
<td>3000 BC</td>
<td>Clay tiles were used in China</td>
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<tr>
<td>700 AD</td>
<td>Thatched Roofs</td>
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<tr>
<td>1870’s</td>
<td>BUR (Built up roof systems)- Asphalt based</td>
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<tr>
<td>1920’s</td>
<td>Use of Asbestos into Asphalt based products</td>
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<td>1960’s</td>
<td>Single ply- PVC</td>
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<tr>
<td>1970’s</td>
<td>Cold, Fluid Applied Roofing &amp; Waterproofing in Germany (some argue late 60’s)</td>
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<td>1980’s</td>
<td>TPO Roof Membrane</td>
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<td>1986</td>
<td>Moisture triggered, aliphatic polyurethane systems</td>
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<tr>
<td>1989</td>
<td>First application of Polyurea on a roof</td>
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Cold Fluid applied roofing & waterproofing should not be confused with “roof coating”
Polyurea roof system should not be confused with a “roof coating”
The Good

2018 Annual Conference
September 10 – 12
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The Bad.... You did what????
Bottom of water jet sleeve. The actual water pipe is inside the black plastic piece. We need to flash directly to the water pipe for this configuration to be watertight. This would require the water jet assembly to be disassembled.
What the hole?
How to treat flashing conditions?
Cold fluid applied fleece reinforced roof membranes
The Ugly
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Example of the inconsistency with the metal plates. Gaps in various areas in excess of 1”
To roof or not to roof that is the question???