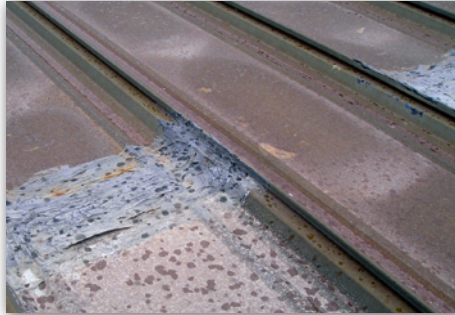


PROJECT PROFILE

Roof coating restores 25-year-old roof and protects glass manufacturing business.

Problem

The existing roof had been in place for over 25 years. Its original galvalume finish was mostly eroded and surface corrosion was taking place on roof panels. The large size of the building and the increasingly dark, rusty color caused excessive expansion and contraction of the panels. Lap seams (vertical) and splice seams (horizontal) had been compromised. Virtually all splice seams had been patched over the years, with products such as asphaltic mastic, APP modified bitumen, and neoprene stripping. These repairs were showing varied signs of deterioration (mastic was cracking, bitumen was peeling, and stripping was shriveling), trapping water and rusting out the roof panels in some places.



In addition, due to the extremely low slope of the roof, water was ponding behind the patches, accelerating corrosion. There was also a concern that the volume of water sustained during significant rains and the negative pressure inside the building, generated by the glass manufacturing process, could cause water to be drawn through the lap seams. This potential leak hazard had to be stopped before it interrupted plant operations.

Solution

D. C. Taylor Co. chose to use Uniflex acrylic elastomeric coating due to its high elasticity over metal, and its resistance to cracking and peeling. This product's high reflectivity also reduces expansion and contraction by keeping surface temperatures more constant. In addition to the normal encapsulation of the splice seams, Uniflex reinforced seam tape was also applied over the lap seams prior to the coating application to help prevent water being pulled in to the building. Saint-Gobain Containers was pleased with the results of this first phase of the roofing project, and contracted with D. C. Taylor Co. to complete the remaining roof area in the same manner.



Saint-Gobain Containers Pevely, Missouri

Saint-Gobain Containers is a producer of glass bottles and jars for the food and beverage industries. They operate 15 plants and two service centers in North America.

D. C. Taylor Co. is responsible for repairing more than 114,000 square feet of Saint-Gobain's roofing system at their facility in Pevely, Missouri. The roof is a 1/4"-12" standing-seam, 24-gauge, galvalume-finished steel. It was installed around 1981.



D. C. Taylor Co.
www.dctaylorco.com

800.876.6346

© 2011 D. C. Taylor Co. All rights reserved.