

Case History



Project Name:	Industrial Manufacturer
Location:	Sunnyvale, CA
Type of Project:	Silicone Roof Application
Specification:	GacoFlex S-20
Area Manager:	Warner Hobart
Customer:	Alliance Roofing, Josh Barthel
Problem to be Solved:	Deteriorating TPO roof

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Manufacturer's Failing Roof Restored Using *GacoFlex S-20*

PROBLEM: A major industrial manufacturer faced a roof that was failing prematurely, and in their design and manufacturing environment leaks were absolutely unacceptable. The existing roofing system was installed in California's Bay Area, and the JP Stevens single-ply roof system was failing prematurely. The existing 10-year old roof was a TPO system that has suffered accelerated deterioration due to faulty manufacturer membrane. Initial repair attempts consisted of single-ply membrane replacement at certain target areas. Despite replacement of the membrane at the deficient areas, leaks continued to haunt the customer and Alliance Roofing, forcing Alliance to find a cost-effective solution to eliminate future leaks. Given the critical need to maintain watertight conditions for the manufacturing facility, and provide a long-lasting system for the customer, the roof has been recently coated using Gaco's GacoFlex S-20 silicone-based coating.

SOLUTION: Over the last two years some Alliance Roofing customers have installed new or restored roofs using the petroleum-free, solvent-free GacoFlex S-20 system. GacoFlex S-20 also features the FM approval rating over single-ply roofing. These

locations have acted as a testing ground to check for adhesion between the existing roofing and new coating materials. Says Alliance Roofing's Josh Barthel, "We saw excellent adhesion results and noted that the coating endures under harsh, ponding water conditions (locations where target patches were applied). We felt a high level of confidence in providing our customer with a very high-quality system adapted to existing conditions."

UNIQUE CHARACTERISTICS: A common area where existing single-ply damage was found was at field membrane-to-walkpad attachment points. To eliminate the problem found in these areas, yet still maintain the existing walkpad surface and color, the coating system was overlapped on either side of the walkpad surface, roughly 4", sealing the defective area.

INSTALLATION DETAILS: The existing roof surface was thoroughly cleaned with the use of power-washing equipment, bristle brooms, and a diluted tri-sodium phosphate cleaner before GacoFlex S-20 was applied. Ensuring that the existing roof surface was extremely well cleaned made Alliance Roofing more confident in good bonding adhesion between the new and existing products.



Before applying GacoFlex S-20 the existing roof had significant deterioration



After applying GacoFlex S-20 the roof surface is smooth and defect-free

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