

PEPSICO AVIATION

CASE STUDY



PepsiCo is a global fortune 500 company that operates in over 200 countries with revenues of \$86 billion dollars per year. In addition to Pepsi® Cola, PepsiCo manufactures several well-known brands such as Frito Lay, Gatorade and Quaker Oats. In 2023, PepsiCo contacted Resinwerks for flooring samples to test in a new hangar floor that services it's Frito Lay office headquarters in Addison, TX.

Spanning over 17,000 square feet, this facility maintains two private aircraft that transport Frito Lay executives to locations around the world. Aviation hangars offer unique challenges when it comes to flooring. Among other requirements, these applications must exhibit superior chemical resistance with high compressive strength that is able to withstand heavy point loads from aircraft tires. After testing a range of systems, PepsiCo selected a heavy-duty aviation flooring system from Resinwerks which was designed for their unique needs.

In addition to the ability to withstand heavy loads, PepsiCo wanted to ensure UV stability along with high chemical & stain resistance. The system consisted of a polyurethane primer and self-leveling Urethane Cement mortar, followed by a high-performance epoxy grout coat and 3-component moisture-cure urethane topcoat in a bright white color. Specifically engineered for heavy-duty applications, this system provided the maintenance team at PepsiCo with a highly functional and aesthetically appealing floor.



SYSTEM BREAKDOWN

PRIMER: BioCem™ TC Primer

- » Applied at a rate of 200 ft² per kit, this primer offers superior adhesion to properly prepared concrete substrates. It is ideally suited as a primer for smooth BioCem™ SL polyurethane concrete applications.
- » Once cured, the primer is sanded prior to re-coat.

MID COAT: BioCem™ SL Slurry

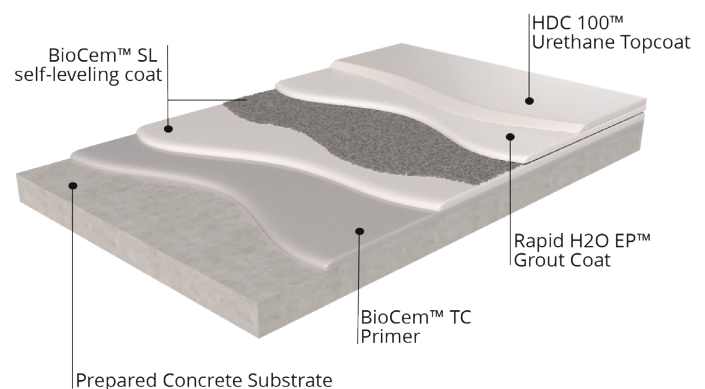
- » Applied at a rate of 1/8", BioCem™ SL provides the overall flooring system with superior compressive strength while also leveling the surface – critical to any hangar floor installation.
- » Once cured, the SL material was ground with a planetary grinder and thoroughly vacuumed.

GROUT COAT: Rapid H2O EP epoxy in white

- » Rapid H2O is a fast-cure water-based epoxy that offers superior inter-coat adhesion.
- » A 0-VOC material with no-odor, Rapid H2O helped to seal the floor in preparation for the final top-coat.

TOP COAT: HDC 100™ Urethane in white

- » HDC 100™ urethane represents the very latest in multi-component urethane technology. At 95% solids, this material has minimal installation odor and VOCs.
- » Pigmented white, the top-coat is completely UV stable which was necessary given the large hangar doors and sunlight exposure.



SUMMARY

Mobilization to complete the hangar project took approximately 4 to 5-days, after a 2-day removal of the existing failing system. The flooring system was left to cure for an additional 48-hours following the final topcoat. This new system will provide Pepsi with a long-term flooring solution that is engineered to withstand the daily challenges of a high traffic private aviation hangar.



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